

PQube 3 Modbus Interface

Reference manual

Revision 1.7

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1. Background

Modbus is a communication protocol originally created by Modicon (now Schneider Electric) in 1979 for communication between programmable logic controllers (PLCs). Modbus became an independently owned standard in 2004 by the Modbus Organization due to its widespread usage and popularity in industrial and SCADA systems.

Links:

Wikipedia: en.wikipedia.org/wiki/Modbus
Modbus Site: modbus.org
Modicon Modbus Protocol:
interlog.com/~speff/usefulinfo/modbus_protocol.pdf

2. Basics

A modbus device presents an abstract set of registers and coils to another device for reading or writing over a communication stack. That stack can be RS232, RS485, or lately TCP/IP. The use of Modbus-TCP/IP allows for modbus-based traffic to flow over the Internet, greatly expanding the complexity of modbus-networked systems.

The PQube 3 and PQube Classic support Modbus-TCP/IP.

2.1 Registers and Coils

Coils on a Modbus device are 1-bit data elements taking two states, ON or OFF. A modbus query can address a set of coils by address and read them or change their state depending on permissions.

Modbus registers are 16-bit wide registers. They are referenced by an address defined by the device address map. Addressing a single register at one address returns a 16-bit value. PQube 3 data values are accessed by 16-bit modbus register reads.

The PQube 3 does not support Modbus coils. All data values are kept in 16-bit wide Modbus registers.

2.2 Address Space

The address space in the PQube 3 is referred to as the **register map**. The register map is referenced to a **global base address** and is divided into **register banks**. Register banks are contiguous (sequential address) sets of registers. **Banks** are divided into individual registers. **Data values** can span several registers, such as float values, which require two contiguous registers to read.

Modbus devices are free to define their own address space. They do not

necessarily map to device internal memory addresses. On the PQube 3, **all registers are addressed relative to a common base address defined in the PQube setup.ini file.** Therefore, a PQube can re-locate its modbus address space, but not change relative offsets. Some devices conventionally offset holding registers from address 0x4000, and input registers from 0x3000. The PQube 3 sets the default base address to 0x7000.

2.3 Query functions

The modbus protocol supports a number of query functions (see the protocol reference above).

The PQube3 only supports the following query functions:

- Function 0x3: Read input register
- Function 0x4: Read holding register
- Function 0x6: Write single register
- Function 0x10: Write multiple registers

“Input registers” are conventionally defined as PLC registers that are refreshed from device input sensors continually. “Holding registers” are conventionally defined as registers that are kept in memory and have read/write state. **The PQube3 does not distinguish between “input registers” and “holding registers.” All registers are considered to be memory-stored registers with READ_ONLY or READ_WRITE permissions.** Therefore, function queries 0x3 and 0x4 will both return the same register result regardless of address.

2.4 Scan rates, client load, and limitations

The modbus protocol limits single query register results to 125 registers per scan. A scan of sets of registers can occur at client, PQube, and network speeds. **However, the PQube3 modbus register values only update at the internal meter update rate, which is around 2 Hz.** Therefore, high rate scans of values in sets of registers will only change returned at 2 Hz, even if scanned at higher rates supports.

The PQube supports multi-client, multi-session modbus, with conventional limit to 10 clients at a time. This value can be changed internally in software.

2.5 Error responses

The PQube3 supports modbus error packets:

ILLEGAL_ADDRESS_VALUE

Used for queries outside of the address space.

ILLEGAL_DATA_VALUE

Used for queries beyond the packet limit.

ILLEGAL_FUNCTION_VALUE

Used for queries at function values other than 0x3,0x4,0x6, or 0x10.

2.4 PQube 3 Configuration

The following parameters can be set in the PQube setup.ini file:

Modbus Base Address:

The global base address from which all registers are offset. Default is 0x7000.

Modbus Query Port:

The TCP/IP port on which the modbus server listens. Default is port 502.

Modbus Byte Order:

Data values spanning multiple registers (such as floats) can be reported in BIG ENDIAN or LITTLE ENDIAN. Default is BIG_ENDIAN.

Modbus Slave ID:

The PQube can be assigned a slave ID required in queries. Default value is 0x1.

2.2 Clients

The PQube3 supports the PSL Modbus Demo client, third party free Modbus clients, or any software conforming to the Modbus protocol (such as groov).

2.3 Register Map

The PQube 3 register map supports **five register banks**. Most registers map directly to meter reads. Other addresses read probe values, internal file values, or perform other effects.

Bank Offset 0 (247 registers):

The PQube Classic Register Bank.

Bank Offset 1000 (28 registers):

The PQube Extended Classic Configuration Bank.

Bank Offset 2000 (859 registers):

The PQube 3 Voltage Bank. Voltages and Harmonics.

Bank Offset 4000 (903 registers):

The PQube 3 Current and Power Bank. Currents, Power, and Harmonics.

Bank Offset 6000 (921 registers):

The PQube 3 DC/HF Bank. DC values, Probes, and HF.

3. Register Bank Tables

3.1 PQube Classic Register Bank (Offset 0x0)

This register bank supports most of the PQube Classic functionality, with exceptions in registers: **92-95, 154-165, 167-173.**

PQube Classic Bank

Offset	Register	Format	Units	Comments
0-1	L1-E	Float	Volt (RMS)	L1 to earth – U _{rms10/12}
2-3	L2-E	Float	Volt (RMS)	L2 to earth – U _{rms10/12}
4-5	L3-E	Float	Volt (RMS)	L3 to earth – U _{rms10/12}
6-7	N-E	Float	Volt (RMS)	Neutral to earth – U _{rms10/12}
8-9	L1-N	Float	Volt (RMS)	L1 to neutral – U _{rms10/12}
10-11	L2-N	Float	Volt (RMS)	L2 to neutral – U _{rms10/12}
12-13	L3-N	Float	Volt (RMS)	L3 to neutral – U _{rms10/12}
14-15	L1-L2	Float	Volt (RMS)	L1 to L2 – U _{rms10/12}
16-17	L2-L3	Float	Volt (RMS)	L2 to L3 – U _{rms10/12}
18-19	L3-L1	Float	Volt (RMS)	L3 to L1 – U _{rms10/12}
20-21	AN1-E	Float	Volt (RMS)	Analog 1 to Earth – U _{rms10/12}
22-23	AN2-E	Float	Volt (RMS)	Analog2 to Earth – U _{rms10/12}
24-25	AN1-AN2	Float	Volt (RMS)	Analog1 to Analog2 – U _{rms10/12}
26-27	Frequency	Float	Hz	
28-29	L1 Current	Float	Amps (RMS)	A _{rms10/12}
30-31	L2 Current	Float	Amps (RMS)	A _{rms10/12}
32-33	L3 Current	Float	Amps (RMS)	A _{rms10/12}
34-35	N Current	Float	Amps (RMS)	Neutral current - A _{rms10/12}
36-37	Power (W)	Float	Watt	Also see 204-209
38-39	Apparent Power (VA)	Float	VA	Also see 210-215
40-41	Digital Input	Float	(none)	Usually 0 or 1; a fractional value indicates duty cycle
42-43	Peak Current (1-cycle)	Float	Amps (RMS)	A _{rms10/12} See also registers 122-124:
44-45	Peak Current (1-minute)	Float	Amps (RMS)	1-minute RMS average See also registers 122-124
46-47	Peak Current (N-minute)	Float	Amps (RMS)	N-minute RMS average Typically N is 10 minutes or 15 minutes. See register 1024. Also, see also registers 122-124
48-49	Peak Power (1-cycle)	Float	Watt	See also registers 125-127
50-51	Peak Power (1-minute)	Float	Watt	See also registers 125-127

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52-53	Peak Power (N-minute)	Float	W	Typically N is 10 minutes or 15 minutes. See register 1024. Also, see registers 125-127
54-55	Peak VA (1-cycle)	Float	VA	See also registers 128-130
56-57	Peak VA (1-minute)	Float	VA	See also registers 128-130
58-59	Peak VA (N-minute)	Float	VA	See registers 128-130. Typically N is 10 minutes or 15 minutes - see register 1024.
60-61	Energy (Wh)	Float	Wh	Also, see registers 131-133
62-63	Apparent Energy (VAh)	Float	VAh	Also, see registers 131-133
64-65	Voltage THD	Float	%	Also, see registers 192-197
66-67	Current TDD	Float	%	Also, see register 1020-1021: base current for TDD. Also, see registers 198-203.
68-69	ANSI Voltage Unbalance	Float	%	If using IEC or GB methods, see registers 174-175 and 178-179
70-71	ANSI Current Unbalance	Float	%	If using IEC or GB methods, see registers 176-177 and 180-181
72-73	L1 Flicker P _{inst}	Float	-	Instantaneous value. For L2 and L3 see 228-239.
74-75	L1 Flicker P _{ST}	Float	-	10-minute value. For L2 and L3 see 228-239.
76-77	L1 Flicker P _{LT}	Float	-	2-hour value. For L2 and L3 see 228-239.
78	New Event Recordings	Integer	-	Number of new events recorded by PQube since last time this register was polled. This register is incremented when the files are fully available for download. This register is cleared by reading it.
79	New Trend Recordings	Integer	-	Number of new trends (daily, weekly, monthly) recorded by PQube since last time this register was polled. This register is incremented when the files are fully available for download. This register is cleared by reading it.
80-81	Volt-amps reactive	Float	VAR	Also, see registers 216-221
82-83	True power factor	Float	-	Value between -1.0 and +1.0
84-85	Temperature – Probe 1	Float	°C	Modbus register is always in °C, even if user has selected °F for display
86-87	Humidity – Probe 1	Float	%RH	Relative humidity
88-89	Temperature – Probe 2	Float	°C	Modbus register is always in °C, even if user has selected °F for display
90-91	Humidity – Probe 2	Float	%RH	Relative humidity
92-93	CO ₂ rate	Float	Grams per hour	Not yet supported
94-95	CO ₂ accumulated	Float	Grams	Not yet supported.
96-97	Earth current	Float	Amps (RMS)	A _{rms10/12}
98-99	L1-N voltage fundamental magnitude	Float	Volt (RMS)	For delta systems, the PQube calculates a metering Neutral for this parameter.
100-101	L1-N voltage fundamental angle	Float	degrees	Range: ±180.0°
102-103	L2-N voltage fundamental magnitude	Float	Volt (RMS)	For delta systems, the PQube calculates a metering Neutral for this parameter.
104-105	L2-N voltage fundamental angle	Float	degrees	Range: ±180.0°
106-107	L3-N voltage fundamental magnitude	Float	Volt (RMS)	For delta systems, the PQube calculates a metering Neutral for this parameter.
108-109	L3-N voltage fundamental angle	Float	degrees	Range: ±180.0°
110-111	L1 current fundamental magnitude	Float	Amps (RMS)	
112-113	L1 current fundamental angle	Float	degrees	Range: ±180.0°
114-115	L2 current fundamental magnitude	Float	Amps (RMS)	
116-117	L2 current fundamental angle	Float	degrees	Range: ±180.0°
118-119	L3 current fundamental magnitude	Float	Amps (RMS)	

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120-121	L3 current fundamental angle	Float	degrees	Range: $\pm 180.0^\circ$
122	Peak current – “since” date	Integer	Year	Typical values: 2009, 2010, etc.
123	Peak current – “since” date	Integer	Month	Range: 1 – 12
124	Peak current – “since” date	Integer	Day	Range: 1 – 31
125	Peak power – “since” date	Integer	Year	Typical values: 2009, 2010, etc.
126	Peak power – “since” date	Integer	Month	Range: 1 – 12
127	Peak power – “since” date	Integer	Day	Range: 1 – 31
128	Peak VA – “since” date	Integer	Year	Typical values: 2009, 2010, etc.
129	Peak VA – “since” date	Integer	Month	Range: 1 – 12
130	Peak VA – “since” date	Integer	Day	Range: 1 – 31
131	Energy (Wh) – “since” date	Integer	Year	Typical values: 2009, 2010, etc.
132	Energy (Wh) – “since” date	Integer	Month	Range: 1 – 12
133	Energy (Wh) – “since” date	Integer	Day	Range: 1 – 31
134	PQube clock-calendar	Integer	Year	Typical values: 2009, 2010, etc.
135	PQube clock-calendar	Integer	Month	Range: 1 – 12
136	PQube clock-calendar	Integer	Day	Range: 1 – 31
137	PQube clock-calendar	Integer	Hour	Range 0 – 23
138	PQube clock-calendar	Integer	Min	Range 0 – 59
139	PQube clock-calendar	Integer	Second	Range 0 – 59
140-141	PQube offset from UTC	Float	Hours	Range -12.0 - +12.0 . Set by user in Setup.ini file.
142-143	Harmonic – L1-N Volt	Float	Volt (RMS)	Harmonic order specified in 166
144-145	Harmonic – L2-N Volt	Float	Volt (RMS)	Harmonic order specified in 166
146-147	Harmonic – L3-N Volt	Float	Volt (RMS)	Harmonic order specified in 166
148-149	Harmonic – L1 current	Float	Amps (RMS)	Harmonic order specified in 166
150-151	Harmonic – L2 current	Float	Amps (RMS)	Harmonic order specified in 166
152-153	Harmonic – L3 current	Float	Amps (RMS)	Harmonic order specified in 166
154-155	Harmonic – L1-N voltage angle	Float	degrees	Not supported
156-157	Harmonic – L2-N voltage angle	Float	degrees	Not supported
158-159	Harmonic – L3-N voltage angle	Float	degrees	Not supported
160-161	Harmonic – L1 current angle	Float	degrees	Not supported.
162-163	Harmonic – L2 current angle	Float	degrees	Not supported.
164-165	Harmonic – L3 current angle	Float	degrees	Not supported.
166	Harmonic order of interest	Integer (Read/Write)	-	Range: 1-50, selected by user on PQube harmonic meters screens – defaults to 3 rd harmonic
167	GPS status	Integer	-	0 = not installed 1 = not locked 2 = locked onto satellites and operating Not supported yet
168-	GPS latitude	Float	degrees	Range: $\pm 90.0000^\circ$ from equato

169				Not supported yet
170-171	GPS longitude	Float	degrees	Range: $\pm 180.0000^\circ$ from prime meridian Not supported yet
172	GPS number of satellites	Integer	-	Count of acquired satellites Not supported yet
173	-	-	-	(Not used)
174-175	IEC or GB Unbalance – V-	Float	Percent	Fundamental negative-sequence voltage, as a percentage of fundamental positive-sequence voltage
176-177	IEC or GB Unbalance – A-	Float	Percent	Fundamental negative-sequence current, as a percentage of fundamental positive-sequence current
178-179	IEC or GB Unbalance – V0	Float	Percent	Fundamental zero-sequence voltage, as a percentage of fundamental positive-sequence voltage
180-181	IEC or GB Unbalance – A0	Float	Percent	Fundamental zero-sequence current, as a percentage of fundamental positive-sequence current
182-183	DC Power	Float	W	DC Volt multiplied by DC amps
184-185	DC Energy	Float	Wh	DC energy accumulated since [date] – see registers 242-244
186-189	User counter	Long Long	counts	Number of times the Analog or Digital Input channels were triggered since [date] – shares this reset date with Energy, see registers 131-133
190	Trigger Snapshot	Write-only	-	Set this register to 1 to trigger a Snapshot with your PQube
191	Reset Peak Measurements	Write-only	-	Set this register to 1 to reset all peak measurements in your PQube
192-193	L1 Voltage THD	Float	%	
194-195	L2 Voltage THD	Float	%	
196-197	L3 Voltage THD	Float	%	
198-199	L1 Current TDD	Float	%	
200-201	L2 Current TDD	Float	%	
202-203	L3 Current TDD	Float	%	
204-205	L1 Power	Float	Watt	
206-207	L2 Power	Float	Watt	
208-209	L3 Power	Float	Watt	
210-211	L1 Apparent Power (VA)	Float	VA	
212-213	L2 Apparent Power (VA)	Float	VA	
214-215	L3 Apparent Power (VA)	Float	VA	
216-217	L1 volt-amps reactive	Float	VAR	
218-219	L2 volt-amps reactive	Float	VAR	
220-221	L3 volt-amps reactive	Float	VAR	
222-223	L1 True Power Factor	Float	-	Value between -1.0 and +1.0
224-225	L2 True Power Factor	Float	-	Value between -1.0 and +1.0
226-227	L3 True Power Factor	Float	-	Value between -1.0 and +1.0
228-229	L2 Flicker P _{inst}	Float	-	Instantaneous value. For L1 see 72-73
230-231	L3 Flicker P _{inst}	Float	-	Instantaneous value. For L1 see 72-73
232-233	L2 Flicker P _{ST}	Float	-	10-minute value. For L1 see 74-75

234-235	L3 Flicker P _{ST}	Float	-	10-minute value. For L1 see 74-75
236-237	L2 Flicker P _{LT}	Float	-	2-hour value. For L1 see 76-77
238-239	L3 Flicker P _{LT}	Float	-	2-hour value. For L1 see 76-77
240-241	VARh	Float		VAR-hours accumulated since [date] - shares this reset date with Energy, see registers 131-133
242	DC Energy- "since" date	Integer	Year	Typical values: 2009, 2010, etc.
243	DC Energy- "since" date	Integer	Month	Range: 1 – 12
244	DC Energy- "since" date	Integer	Day	Range: 1 – 31
245	Reset Energy Accumulators	Write-only	-	Set this register to 1 to reset the energy accumulators in your PQube
246	Reset Analog Energy Accumulators	Write-only	-	Set this register to 1 to reset the analog energy accumulators in your PQube

3.2 PQube Static Configuration Bank (Offset 0x1000)

This register bank only changes values across reboots and supports the PQube Classic functionality, with exceptions in registers **1003** and **new registers in 0x1025-0x1027**.

PQube Static Configuration Bank

Offset	Register	Format	Units	Comments
1000	PQube Firmware – Major rev	Integer	-	Typically formatted as “3.3.4” or similar – Major.Minor.Bugfix
1001	PQube Firmware – Minor rev	Integer	-	
1002	PQube Firmware – Bug fix rev	Integer	-	
1003	PQube Firmware build number	Integer	-	Factory use. Not supported
1004-1005	Nominal L-N voltage	Float	Volt (RMS)	
1006-1007	Nominal L-L voltage	Float	Volt (RMS)	
1008-1009	Nominal frequency	Float	Hz	
1010-1011	PT (potential transformer) ratio	Float	-	
1012-1013	CT (current transformer) ratio	Float	-	
1014-1015	PQube serial number	Float	-	PQube serial number, without leading “P” and leading zeros
1016 - 1017	AN1 (Analog 1-E) multiplier	Float	-	
1018 - 1019	AN2 (Analog 2-E) multiplier	Float	-	
1020 - 1021	Current basis for TDD	Float	Amps (RMS)	Used for calculating IEEE 519 Current TDD, and for setting the maximum current of interest.
1022	Power configuration	Integer	-	0 = single-phase L1-N 1 = single-phase L1-L2 2 = split single-phase 3 = Star / Wye 4 = Delta 5 = Split-phase Delta 255 = Not yet determined
1023	Ground Point	Integer	-	0 = centered between all 3 phases 1 = L1 2 = L2 3 = L3 4 = centered between L1 and L2 5 = centered between L2 and L3 6 = centered between L3 and L1
1024	N-minutes	Integer	-	User-defined interval for peak current, power, and apparent power measurements. 15 minutes is the default value. In the setup file, you can define N to be 3, 5, 10, 15, 20, 30, or 60 minutes.
1025	PQube Firmware build YEAR	Integer	-	
1026	PQube Firmware build MONTH	Integer	-	
1027	PQube Firmware build DAY	Integer	-	
1028	Voltage or Percent Harmonic Units	Integer	-	Expresses whether L1, L2 and L3 voltage harmonics are expressed in Volt or Percent of the Fundamental. Read only register reflects what has been set in setup.ini file

3.3 PQube Voltages Bank (Offset 0x2000)

This register bank focuses on phase voltages and harmonics. **It is new for the PQube 3.**

Voltages, Harmonics and Scopes

Offset	Register	Format	Units	Comments
2000	L1_E_RMS_Half	Float	Volt (RMS)	
2002	L2_E_RMS_Half	Float	Volt (RMS)	
2004	L3_E_RMS_Half	Float	Volt (RMS)	
2006	NU_E_RMS_Half	Float	Volt (RMS)	
2008	L1_N_RMS_Half	Float	Volt (RMS)	
2010	L2_N_RMS_Half	Float	Volt (RMS)	
2012	L3_N_RMS_Half	Float	Volt (RMS)	
2014	L1_L2_RMS_Half	Float	Volt (RMS)	
2016	L2_L3_RMS_Half	Float	Volt (RMS)	
2018	L3_L1_RMS_Half	Float	Volt (RMS)	
2020	Frequency	Float	Hz	
2022	Fundamental_L1_Voltage	Float	Volt (RMS)	
2024	Fundamental_L2_Voltage	Float	Volt (RMS)	
2026	Fundamental_L3_Voltage	Float	Volt (RMS)	
2028	Fundamental_L1_Voltage_Angle	Float	Deg	
2030	Fundamental_L2_Voltage_Angle	Float	Deg	
2032	Fundamental_L3_Voltage_Angle	Float	Deg	
2034	L1_Voltage_Scope_Point0	Float	Volt	
2036	L1_Voltage_Scope_Point1	Float	Volt	
2038	L1_Voltage_Scope_Point2	Float	Volt	
2040	L1_Voltage_Scope_Point3	Float	Volt	
2042	L1_Voltage_Scope_Point4	Float	Volt	
2044	L1_Voltage_Scope_Point5	Float	Volt	
2046	L1_Voltage_Scope_Point6	Float	Volt	
2048	L1_Voltage_Scope_Point7	Float	Volt	
2050	L1_Voltage_Scope_Point8	Float	Volt	
2052	L1_Voltage_Scope_Point9	Float	Volt	
2054	L1_Voltage_Scope_Point10	Float	Volt	
2056	L1_Voltage_Scope_Point11	Float	Volt	
2058	L1_Voltage_Scope_Point12	Float	Volt	
2060	L1_Voltage_Scope_Point13	Float	Volt	
2062	L1_Voltage_Scope_Point14	Float	Volt	

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2064	L1_Voltage_Scope_Point15	Float	Volt	
2066	L1_Voltage_Scope_Point16	Float	Volt	
2068	L1_Voltage_Scope_Point17	Float	Volt	
2070	L1_Voltage_Scope_Point18	Float	Volt	
2072	L1_Voltage_Scope_Point19	Float	Volt	
2074	L1_Voltage_Scope_Point20	Float	Volt	
2076	L1_Voltage_Scope_Point21	Float	Volt	
2078	L1_Voltage_Scope_Point22	Float	Volt	
2080	L1_Voltage_Scope_Point23	Float	Volt	
2082	L1_Voltage_Scope_Point24	Float	Volt	
2084	L1_Voltage_Scope_Point25	Float	Volt	
2086	L1_Voltage_Scope_Point26	Float	Volt	
2088	L1_Voltage_Scope_Point27	Float	Volt	
2090	L1_Voltage_Scope_Point28	Float	Volt	
2092	L1_Voltage_Scope_Point29	Float	Volt	
2094	L1_Voltage_Scope_Point30	Float	Volt	
2096	L1_Voltage_Scope_Point31	Float	Volt	
2098	L2_Voltage_Scope_Point0	Float	Volt	
2100	L2_Voltage_Scope_Point1	Float	Volt	
2102	L2_Voltage_Scope_Point2	Float	Volt	
2104	L2_Voltage_Scope_Point3	Float	Volt	
2106	L2_Voltage_Scope_Point4	Float	Volt	
2108	L2_Voltage_Scope_Point5	Float	Volt	
2110	L2_Voltage_Scope_Point6	Float	Volt	
2112	L2_Voltage_Scope_Point7	Float	Volt	
2114	L2_Voltage_Scope_Point8	Float	Volt	
2116	L2_Voltage_Scope_Point9	Float	Volt	
2118	L2_Voltage_Scope_Point10	Float	Volt	
2120	L2_Voltage_Scope_Point11	Float	Volt	
2122	L2_Voltage_Scope_Point12	Float	Volt	
2124	L2_Voltage_Scope_Point13	Float	Volt	
2126	L2_Voltage_Scope_Point14	Float	Volt	
2128	L2_Voltage_Scope_Point15	Float	Volt	
2130	L2_Voltage_Scope_Point16	Float	Volt	
2132	L2_Voltage_Scope_Point17	Float	Volt	
2134	L2_Voltage_Scope_Point18	Float	Volt	
2136	L2_Voltage_Scope_Point19	Float	Volt	
2138	L2_Voltage_Scope_Point20	Float	Volt	
2140	L2_Voltage_Scope_Point21	Float	Volt	
2142	L2_Voltage_Scope_Point22	Float	Volt	
2144	L2_Voltage_Scope_Point23	Float	Volt	
2146	L2_Voltage_Scope_Point24	Float	Volt	

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2148	L2_Voltage_Scope_Point25	Float	Volt	
2150	L2_Voltage_Scope_Point26	Float	Volt	
2152	L2_Voltage_Scope_Point27	Float	Volt	
2154	L2_Voltage_Scope_Point28	Float	Volt	
2156	L2_Voltage_Scope_Point29	Float	Volt	
2158	L2_Voltage_Scope_Point30	Float	Volt	
2160	L2_Voltage_Scope_Point31	Float	Volt	
2162	L3_Voltage_Scope_Point0	Float	Volt	
2164	L3_Voltage_Scope_Point1	Float	Volt	
2166	L3_Voltage_Scope_Point2	Float	Volt	
2168	L3_Voltage_Scope_Point3	Float	Volt	
2170	L3_Voltage_Scope_Point4	Float	Volt	
2172	L3_Voltage_Scope_Point5	Float	Volt	
2174	L3_Voltage_Scope_Point6	Float	Volt	
2176	L3_Voltage_Scope_Point7	Float	Volt	
2178	L3_Voltage_Scope_Point8	Float	Volt	
2180	L3_Voltage_Scope_Point9	Float	Volt	
2182	L3_Voltage_Scope_Point10	Float	Volt	
2184	L3_Voltage_Scope_Point11	Float	Volt	
2186	L3_Voltage_Scope_Point12	Float	Volt	
2188	L3_Voltage_Scope_Point13	Float	Volt	
2190	L3_Voltage_Scope_Point14	Float	Volt	
2192	L3_Voltage_Scope_Point15	Float	Volt	
2194	L3_Voltage_Scope_Point16	Float	Volt	
2196	L3_Voltage_Scope_Point17	Float	Volt	
2198	L3_Voltage_Scope_Point18	Float	Volt	
2200	L3_Voltage_Scope_Point19	Float	Volt	
2202	L3_Voltage_Scope_Point20	Float	Volt	
2204	L3_Voltage_Scope_Point21	Float	Volt	
2206	L3_Voltage_Scope_Point22	Float	Volt	
2208	L3_Voltage_Scope_Point23	Float	Volt	
2210	L3_Voltage_Scope_Point24	Float	Volt	
2212	L3_Voltage_Scope_Point25	Float	Volt	
2214	L3_Voltage_Scope_Point26	Float	Volt	
2216	L3_Voltage_Scope_Point27	Float	Volt	
2218	L3_Voltage_Scope_Point28	Float	Volt	
2220	L3_Voltage_Scope_Point29	Float	Volt	
2222	L3_Voltage_Scope_Point30	Float	Volt	
2224	L3_Voltage_Scope_Point31	Float	Volt	
2226	L1_E_RMS_10_12	Float	Volt (RMS)	
2228	L2_E_RMS_10_12	Float	Volt (RMS)	
2230	L3_E_RMS_10_12	Float	Volt (RMS)	

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2232	L1_Voltage_Harmonic_H1	Float	Volt	
2234	L1_Voltage_Harmonic_H2	Float	Volt OR %H1	Unit is function of configuration tag in PQube3 See register 8028
2236	L1_Voltage_Harmonic_H3	Float	Volt OR %H1	
2238	L1_Voltage_Harmonic_H4	Float	Volt OR %H1	
2240	L1_Voltage_Harmonic_H5	Float	Volt OR %H1	
2242	L1_Voltage_Harmonic_H6	Float	Volt OR %H1	
2244	L1_Voltage_Harmonic_H7	Float	Volt OR %H1	
2246	L1_Voltage_Harmonic_H8	Float	Volt OR %H1	
2248	L1_Voltage_Harmonic_H9	Float	Volt OR %H1	
2250	L1_Voltage_Harmonic_H10	Float	Volt OR %H1	
2252	L1_Voltage_Harmonic_H11	Float	Volt OR %H1	
2254	L1_Voltage_Harmonic_H12	Float	Volt OR %H1	
2256	L1_Voltage_Harmonic_H13	Float	Volt OR %H1	
2258	L1_Voltage_Harmonic_H14	Float	Volt OR %H1	
2260	L1_Voltage_Harmonic_H15	Float	Volt OR %H1	
2262	L1_Voltage_Harmonic_H16	Float	Volt OR %H1	
2264	L1_Voltage_Harmonic_H17	Float	Volt OR %H1	
2266	L1_Voltage_Harmonic_H18	Float	Volt OR %H1	
2268	L1_Voltage_Harmonic_H19	Float	Volt OR %H1	
2270	L1_Voltage_Harmonic_H20	Float	Volt OR %H1	
2272	L1_Voltage_Harmonic_H21	Float	Volt OR %H1	
2274	L1_Voltage_Harmonic_H22	Float	Volt OR %H1	
2276	L1_Voltage_Harmonic_H23	Float	Volt OR %H1	
2278	L1_Voltage_Harmonic_H24	Float	Volt OR %H1	
2280	L1_Voltage_Harmonic_H25	Float	Volt OR %H1	
2282	L1_Voltage_Harmonic_H26	Float	Volt OR %H1	
2284	L1_Voltage_Harmonic_H27	Float	Volt OR %H1	
2286	L1_Voltage_Harmonic_H28	Float	Volt OR %H1	
2288	L1_Voltage_Harmonic_H29	Float	Volt OR %H1	
2290	L1_Voltage_Harmonic_H30	Float	Volt OR %H1	
2292	L1_Voltage_Harmonic_H31	Float	Volt OR %H1	
2294	L1_Voltage_Harmonic_H32	Float	Volt OR %H1	
2296	L1_Voltage_Harmonic_H33	Float	Volt OR %H1	
2298	L1_Voltage_Harmonic_H34	Float	Volt OR %H1	
2300	L1_Voltage_Harmonic_H35	Float	Volt OR %H1	
2302	L1_Voltage_Harmonic_H36	Float	Volt OR %H1	
2304	L1_Voltage_Harmonic_H37	Float	Volt OR %H1	
2306	L1_Voltage_Harmonic_H38	Float	Volt OR %H1	
2308	L1_Voltage_Harmonic_H39	Float	Volt OR %H1	
2310	L1_Voltage_Harmonic_H40	Float	Volt OR %H1	
2312	L1_Voltage_Harmonic_H41	Float	Volt OR %H1	
2314	L1_Voltage_Harmonic_H42	Float	Volt OR %H1	

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2316	L1_Voltage_Harmonic_H43	Float	Volt OR %H1
2318	L1_Voltage_Harmonic_H44	Float	Volt OR %H1
2320	L1_Voltage_Harmonic_H45	Float	Volt OR %H1
2322	L1_Voltage_Harmonic_H46	Float	Volt OR %H1
2324	L1_Voltage_Harmonic_H47	Float	Volt OR %H1
2326	L1_Voltage_Harmonic_H48	Float	Volt OR %H1
2328	L1_Voltage_Harmonic_H49	Float	Volt OR %H1
2330	L1_Voltage_Harmonic_H50	Float	Volt OR %H1
2332	L2_Voltage_Harmonic_H1	Float	Volt OR %H1
2334	L2_Voltage_Harmonic_H2	Float	Volt OR %H1
2336	L2_Voltage_Harmonic_H3	Float	Volt OR %H1
2338	L2_Voltage_Harmonic_H4	Float	Volt OR %H1
2340	L2_Voltage_Harmonic_H5	Float	Volt OR %H1
2342	L2_Voltage_Harmonic_H6	Float	Volt OR %H1
2344	L2_Voltage_Harmonic_H7	Float	Volt OR %H1
2346	L2_Voltage_Harmonic_H8	Float	Volt OR %H1
2348	L2_Voltage_Harmonic_H9	Float	Volt OR %H1
2350	L2_Voltage_Harmonic_H10	Float	Volt OR %H1
2352	L2_Voltage_Harmonic_H11	Float	Volt OR %H1
2354	L2_Voltage_Harmonic_H12	Float	Volt OR %H1
2356	L2_Voltage_Harmonic_H13	Float	Volt OR %H1
2358	L2_Voltage_Harmonic_H14	Float	Volt OR %H1
2360	L2_Voltage_Harmonic_H15	Float	Volt OR %H1
2362	L2_Voltage_Harmonic_H16	Float	Volt OR %H1
2364	L2_Voltage_Harmonic_H17	Float	Volt OR %H1
2366	L2_Voltage_Harmonic_H18	Float	Volt OR %H1
2368	L2_Voltage_Harmonic_H19	Float	Volt OR %H1
2370	L2_Voltage_Harmonic_H20	Float	Volt OR %H1
2372	L2_Voltage_Harmonic_H21	Float	Volt OR %H1
2374	L2_Voltage_Harmonic_H22	Float	Volt OR %H1
2376	L2_Voltage_Harmonic_H23	Float	Volt OR %H1
2378	L2_Voltage_Harmonic_H24	Float	Volt OR %H1
2380	L2_Voltage_Harmonic_H25	Float	Volt OR %H1
2382	L2_Voltage_Harmonic_H26	Float	Volt OR %H1
2384	L2_Voltage_Harmonic_H27	Float	Volt OR %H1
2386	L2_Voltage_Harmonic_H28	Float	Volt OR %H1
2388	L2_Voltage_Harmonic_H29	Float	Volt OR %H1
2390	L2_Voltage_Harmonic_H30	Float	Volt OR %H1
2392	L2_Voltage_Harmonic_H31	Float	Volt OR %H1
2394	L2_Voltage_Harmonic_H32	Float	Volt OR %H1
2396	L2_Voltage_Harmonic_H33	Float	Volt OR %H1
2398	L2_Voltage_Harmonic_H34	Float	Volt OR %H1

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2400	L2_Voltage_Harmonic_H35	Float	Volt OR %H1
2402	L2_Voltage_Harmonic_H36	Float	Volt OR %H1
2404	L2_Voltage_Harmonic_H37	Float	Volt OR %H1
2406	L2_Voltage_Harmonic_H38	Float	Volt OR %H1
2408	L2_Voltage_Harmonic_H39	Float	Volt OR %H1
2410	L2_Voltage_Harmonic_H40	Float	Volt OR %H1
2412	L2_Voltage_Harmonic_H41	Float	Volt OR %H1
2414	L2_Voltage_Harmonic_H42	Float	Volt OR %H1
2416	L2_Voltage_Harmonic_H43	Float	Volt OR %H1
2418	L2_Voltage_Harmonic_H44	Float	Volt OR %H1
2420	L2_Voltage_Harmonic_H45	Float	Volt OR %H1
2422	L2_Voltage_Harmonic_H46	Float	Volt OR %H1
2424	L2_Voltage_Harmonic_H47	Float	Volt OR %H1
2426	L2_Voltage_Harmonic_H48	Float	Volt OR %H1
2428	L2_Voltage_Harmonic_H49	Float	Volt OR %H1
2430	L2_Voltage_Harmonic_H50	Float	Volt OR %H1
2432	L3_Voltage_Harmonic_H1	Float	Volt OR %H1
2434	L3_Voltage_Harmonic_H2	Float	Volt OR %H1
2436	L3_Voltage_Harmonic_H3	Float	Volt OR %H1
2438	L3_Voltage_Harmonic_H4	Float	Volt OR %H1
2440	L3_Voltage_Harmonic_H5	Float	Volt OR %H1
2442	L3_Voltage_Harmonic_H6	Float	Volt OR %H1
2444	L3_Voltage_Harmonic_H7	Float	Volt OR %H1
2446	L3_Voltage_Harmonic_H8	Float	Volt OR %H1
2448	L3_Voltage_Harmonic_H9	Float	Volt OR %H1
2450	L3_Voltage_Harmonic_H10	Float	Volt OR %H1
2452	L3_Voltage_Harmonic_H11	Float	Volt OR %H1
2454	L3_Voltage_Harmonic_H12	Float	Volt OR %H1
2456	L3_Voltage_Harmonic_H13	Float	Volt OR %H1
2458	L3_Voltage_Harmonic_H14	Float	Volt OR %H1
2460	L3_Voltage_Harmonic_H15	Float	Volt OR %H1
2462	L3_Voltage_Harmonic_H16	Float	Volt OR %H1
2464	L3_Voltage_Harmonic_H17	Float	Volt OR %H1
2466	L3_Voltage_Harmonic_H18	Float	Volt OR %H1
2468	L3_Voltage_Harmonic_H19	Float	Volt OR %H1
2470	L3_Voltage_Harmonic_H20	Float	Volt OR %H1
2472	L3_Voltage_Harmonic_H21	Float	Volt OR %H1
2474	L3_Voltage_Harmonic_H22	Float	Volt OR %H1
2476	L3_Voltage_Harmonic_H23	Float	Volt OR %H1
2478	L3_Voltage_Harmonic_H24	Float	Volt OR %H1
2480	L3_Voltage_Harmonic_H25	Float	Volt OR %H1
2482	L3_Voltage_Harmonic_H26	Float	Volt OR %H1

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2484	L3_Voltage_Harmonic_H27	Float	Volt OR %H1
2486	L3_Voltage_Harmonic_H28	Float	Volt OR %H1
2488	L3_Voltage_Harmonic_H29	Float	Volt OR %H1
2490	L3_Voltage_Harmonic_H30	Float	Volt OR %H1
2492	L3_Voltage_Harmonic_H31	Float	Volt OR %H1
2494	L3_Voltage_Harmonic_H32	Float	Volt OR %H1
2496	L3_Voltage_Harmonic_H33	Float	Volt OR %H1
2498	L3_Voltage_Harmonic_H34	Float	Volt OR %H1
2500	L3_Voltage_Harmonic_H35	Float	Volt OR %H1
2502	L3_Voltage_Harmonic_H36	Float	Volt OR %H1
2504	L3_Voltage_Harmonic_H37	Float	Volt OR %H1
2506	L3_Voltage_Harmonic_H38	Float	Volt OR %H1
2508	L3_Voltage_Harmonic_H39	Float	Volt OR %H1
2510	L3_Voltage_Harmonic_H40	Float	Volt OR %H1
2512	L3_Voltage_Harmonic_H41	Float	Volt OR %H1
2514	L3_Voltage_Harmonic_H42	Float	Volt OR %H1
2516	L3_Voltage_Harmonic_H43	Float	Volt OR %H1
2518	L3_Voltage_Harmonic_H44	Float	Volt OR %H1
2520	L3_Voltage_Harmonic_H45	Float	Volt OR %H1
2522	L3_Voltage_Harmonic_H46	Float	Volt OR %H1
2524	L3_Voltage_Harmonic_H47	Float	Volt OR %H1
2526	L3_Voltage_Harmonic_H48	Float	Volt OR %H1
2528	L3_Voltage_Harmonic_H49	Float	Volt OR %H1
2530	L3_Voltage_Harmonic_H50	Float	Volt OR %H1
2532	L1_Voltage_Interharmonic_H0	Float	Volt
2534	L1_Voltage_Interharmonic_H1	Float	Volt
2536	L1_Voltage_Interharmonic_H2	Float	Volt
2538	L1_Voltage_Interharmonic_H3	Float	Volt
2540	L1_Voltage_Interharmonic_H4	Float	Volt
2542	L1_Voltage_Interharmonic_H5	Float	Volt
2544	L1_Voltage_Interharmonic_H6	Float	Volt
2546	L1_Voltage_Interharmonic_H7	Float	Volt
2548	L1_Voltage_Interharmonic_H8	Float	Volt
2550	L1_Voltage_Interharmonic_H9	Float	Volt
2552	L1_Voltage_Interharmonic_H10	Float	Volt
2554	L1_Voltage_Interharmonic_H11	Float	Volt
2556	L1_Voltage_Interharmonic_H12	Float	Volt
2558	L1_Voltage_Interharmonic_H13	Float	Volt
2560	L1_Voltage_Interharmonic_H14	Float	Volt
2562	L1_Voltage_Interharmonic_H15	Float	Volt
2564	L1_Voltage_Interharmonic_H16	Float	Volt
2566	L1_Voltage_Interharmonic_H17	Float	Volt

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2568	L1_Voltage_Interharmonic_H18	Float	Volt	
2570	L1_Voltage_Interharmonic_H19	Float	Volt	
2572	L1_Voltage_Interharmonic_H20	Float	Volt	
2574	L1_Voltage_Interharmonic_H21	Float	Volt	
2576	L1_Voltage_Interharmonic_H22	Float	Volt	
2578	L1_Voltage_Interharmonic_H23	Float	Volt	
2580	L1_Voltage_Interharmonic_H24	Float	Volt	
2582	L1_Voltage_Interharmonic_H25	Float	Volt	
2584	L1_Voltage_Interharmonic_H26	Float	Volt	
2586	L1_Voltage_Interharmonic_H27	Float	Volt	
2588	L1_Voltage_Interharmonic_H28	Float	Volt	
2590	L1_Voltage_Interharmonic_H29	Float	Volt	
2592	L1_Voltage_Interharmonic_H30	Float	Volt	
2594	L1_Voltage_Interharmonic_H31	Float	Volt	
2596	L1_Voltage_Interharmonic_H32	Float	Volt	
2598	L1_Voltage_Interharmonic_H33	Float	Volt	
2600	L1_Voltage_Interharmonic_H34	Float	Volt	
2602	L1_Voltage_Interharmonic_H35	Float	Volt	
2604	L1_Voltage_Interharmonic_H36	Float	Volt	
2606	L1_Voltage_Interharmonic_H37	Float	Volt	
2608	L1_Voltage_Interharmonic_H38	Float	Volt	
2610	L1_Voltage_Interharmonic_H39	Float	Volt	
2612	L1_Voltage_Interharmonic_H40	Float	Volt	
2614	L1_Voltage_Interharmonic_H41	Float	Volt	
2616	L1_Voltage_Interharmonic_H42	Float	Volt	
2618	L1_Voltage_Interharmonic_H43	Float	Volt	
2620	L1_Voltage_Interharmonic_H44	Float	Volt	
2622	L1_Voltage_Interharmonic_H45	Float	Volt	
2624	L1_Voltage_Interharmonic_H46	Float	Volt	
2626	L1_Voltage_Interharmonic_H47	Float	Volt	
2628	L1_Voltage_Interharmonic_H48	Float	Volt	
2630	L1_Voltage_Interharmonic_H49	Float	Volt	
2632	L2_Voltage_Interharmonic_H0	Float	Volt	
2634	L2_Voltage_Interharmonic_H1	Float	Volt	
2636	L2_Voltage_Interharmonic_H2	Float	Volt	
2638	L2_Voltage_Interharmonic_H3	Float	Volt	
2640	L2_Voltage_Interharmonic_H4	Float	Volt	
2642	L2_Voltage_Interharmonic_H5	Float	Volt	
2644	L2_Voltage_Interharmonic_H6	Float	Volt	
2646	L2_Voltage_Interharmonic_H7	Float	Volt	
2648	L2_Voltage_Interharmonic_H8	Float	Volt	
2650	L2_Voltage_Interharmonic_H9	Float	Volt	

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2652	L2_Voltage_Interharmonic_H10	Float	Volt	
2654	L2_Voltage_Interharmonic_H11	Float	Volt	
2656	L2_Voltage_Interharmonic_H12	Float	Volt	
2658	L2_Voltage_Interharmonic_H13	Float	Volt	
2660	L2_Voltage_Interharmonic_H14	Float	Volt	
2662	L2_Voltage_Interharmonic_H15	Float	Volt	
2664	L2_Voltage_Interharmonic_H16	Float	Volt	
2666	L2_Voltage_Interharmonic_H17	Float	Volt	
2668	L2_Voltage_Interharmonic_H18	Float	Volt	
2670	L2_Voltage_Interharmonic_H19	Float	Volt	
2672	L2_Voltage_Interharmonic_H20	Float	Volt	
2674	L2_Voltage_Interharmonic_H21	Float	Volt	
2676	L2_Voltage_Interharmonic_H22	Float	Volt	
2678	L2_Voltage_Interharmonic_H23	Float	Volt	
2680	L2_Voltage_Interharmonic_H24	Float	Volt	
2682	L2_Voltage_Interharmonic_H25	Float	Volt	
2684	L2_Voltage_Interharmonic_H26	Float	Volt	
2686	L2_Voltage_Interharmonic_H27	Float	Volt	
2688	L2_Voltage_Interharmonic_H28	Float	Volt	
2690	L2_Voltage_Interharmonic_H29	Float	Volt	
2692	L2_Voltage_Interharmonic_H30	Float	Volt	
2694	L2_Voltage_Interharmonic_H31	Float	Volt	
2696	L2_Voltage_Interharmonic_H32	Float	Volt	
2698	L2_Voltage_Interharmonic_H33	Float	Volt	
2700	L2_Voltage_Interharmonic_H34	Float	Volt	
2702	L2_Voltage_Interharmonic_H35	Float	Volt	
2704	L2_Voltage_Interharmonic_H36	Float	Volt	
2706	L2_Voltage_Interharmonic_H37	Float	Volt	
2708	L2_Voltage_Interharmonic_H38	Float	Volt	
2710	L2_Voltage_Interharmonic_H39	Float	Volt	
2712	L2_Voltage_Interharmonic_H40	Float	Volt	
2714	L2_Voltage_Interharmonic_H41	Float	Volt	
2716	L2_Voltage_Interharmonic_H42	Float	Volt	
2718	L2_Voltage_Interharmonic_H43	Float	Volt	
2720	L2_Voltage_Interharmonic_H44	Float	Volt	
2722	L2_Voltage_Interharmonic_H45	Float	Volt	
2724	L2_Voltage_Interharmonic_H46	Float	Volt	
2726	L2_Voltage_Interharmonic_H47	Float	Volt	
2728	L2_Voltage_Interharmonic_H48	Float	Volt	
2730	L2_Voltage_Interharmonic_H49	Float	Volt	
2732	L3_Voltage_Interharmonic_H0	Float	Volt	
2734	L3_Voltage_Interharmonic_H1	Float	Volt	

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2736	L3_Voltage_Interharmonic_H2	Float	Volt	
2738	L3_Voltage_Interharmonic_H3	Float	Volt	
2740	L3_Voltage_Interharmonic_H4	Float	Volt	
2742	L3_Voltage_Interharmonic_H5	Float	Volt	
2744	L3_Voltage_Interharmonic_H6	Float	Volt	
2746	L3_Voltage_Interharmonic_H7	Float	Volt	
2748	L3_Voltage_Interharmonic_H8	Float	Volt	
2750	L3_Voltage_Interharmonic_H9	Float	Volt	
2752	L3_Voltage_Interharmonic_H10	Float	Volt	
2754	L3_Voltage_Interharmonic_H11	Float	Volt	
2756	L3_Voltage_Interharmonic_H12	Float	Volt	
2758	L3_Voltage_Interharmonic_H13	Float	Volt	
2760	L3_Voltage_Interharmonic_H14	Float	Volt	
2762	L3_Voltage_Interharmonic_H15	Float	Volt	
2764	L3_Voltage_Interharmonic_H16	Float	Volt	
2766	L3_Voltage_Interharmonic_H17	Float	Volt	
2768	L3_Voltage_Interharmonic_H18	Float	Volt	
2770	L3_Voltage_Interharmonic_H19	Float	Volt	
2772	L3_Voltage_Interharmonic_H20	Float	Volt	
2774	L3_Voltage_Interharmonic_H21	Float	Volt	
2776	L3_Voltage_Interharmonic_H22	Float	Volt	
2778	L3_Voltage_Interharmonic_H23	Float	Volt	
2780	L3_Voltage_Interharmonic_H24	Float	Volt	
2782	L3_Voltage_Interharmonic_H25	Float	Volt	
2784	L3_Voltage_Interharmonic_H26	Float	Volt	
2786	L3_Voltage_Interharmonic_H27	Float	Volt	
2788	L3_Voltage_Interharmonic_H28	Float	Volt	
2790	L3_Voltage_Interharmonic_H29	Float	Volt	
2792	L3_Voltage_Interharmonic_H30	Float	Volt	
2794	L3_Voltage_Interharmonic_H31	Float	Volt	
2796	L3_Voltage_Interharmonic_H32	Float	Volt	
2798	L3_Voltage_Interharmonic_H33	Float	Volt	
2800	L3_Voltage_Interharmonic_H34	Float	Volt	
2802	L3_Voltage_Interharmonic_H35	Float	Volt	
2804	L3_Voltage_Interharmonic_H36	Float	Volt	
2806	L3_Voltage_Interharmonic_H37	Float	Volt	
2808	L3_Voltage_Interharmonic_H38	Float	Volt	
2810	L3_Voltage_Interharmonic_H39	Float	Volt	
2812	L3_Voltage_Interharmonic_H40	Float	Volt	
2814	L3_Voltage_Interharmonic_H41	Float	Volt	
2816	L3_Voltage_Interharmonic_H42	Float	Volt	
2818	L3_Voltage_Interharmonic_H43	Float	Volt	

2820	L3_Voltage_Interharmonic_H44	Float	Volt	
2822	L3_Voltage_Interharmonic_H45	Float	Volt	
2824	L3_Voltage_Interharmonic_H46	Float	Volt	
2826	L3_Voltage_Interharmonic_H47	Float	Volt	
2828	L3_Voltage_Interharmonic_H48	Float	Volt	
2830	L3_Voltage_Interharmonic_H49	Float	Volt	
2832	L1_THD	Float	%	
2834	L2_THD	Float	%	
2836	L3_THD	Float	%	
2838	Unbalance_V_Negative_Sequence	Float	%	
2840	Unbalance_V_Zero_Sequence	Float	%	
2842	Flicker_Pinst_L1	Float		
2844	Flicker_Pinst_L2	Float		
2846	Flicker_Pinst_L3	Float		
2848	Flicker_Pst_L1	Float		
2850	Flicker_Pst_L2	Float		
2852	Flicker_Pst_L3	Float		
2854	Flicker_Plt_L1	Float		
2856	Flicker_Plt_L2	Float		
2858	Flicker_Plt_L3	Float		

3.4 PQube Currents Bank (Offset 0x6000)

This register bank focuses on phase currents and harmonics. **It is new for the PQube 3.**

Currents, Powers and Scopes

Offset	Register	Format	Units	Comments
4000	Current_L1	Float	Amps(RMS)	
4002	Current_L2	Float	Amps(RMS)	
4004	Current_L3	Float	Amps(RMS)	
4006	Current_LN	Float	Amps(RMS)	
4008	Current_LE	Float	Amps(RMS)	
4010	Current_L6	Float	Amps(RMS)	
4012	Current_L7	Float	Amps(RMS)	
4014	Current_L8	Float	Amps(RMS)	

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4016	Fundamental_L1_Current	Float	Amps(RMS)	
4018	Fundamental_L2_Current	Float	Amps(RMS)	
4020	Fundamental_L3_Current	Float	Amps(RMS)	
4022	Fundamental_L1_Current_Angle	Float	Deg	
4024	Fundamental_L2_Current_Angle	Float	Deg	
4026	Fundamental_L3_Current_Angle	Float	Deg	
4028	L1_Current_Scope_Point0	Float	Amps	
4030	L1_Current_Scope_Point1	Float	Amps	
4032	L1_Current_Scope_Point2	Float	Amps	
4034	L1_Current_Scope_Point3	Float	Amps	
4036	L1_Current_Scope_Point4	Float	Amps	
4038	L1_Current_Scope_Point5	Float	Amps	
4040	L1_Current_Scope_Point6	Float	Amps	
4042	L1_Current_Scope_Point7	Float	Amps	
4044	L1_Current_Scope_Point8	Float	Amps	
4046	L1_Current_Scope_Point9	Float	Amps	
4048	L1_Current_Scope_Point10	Float	Amps	
4050	L1_Current_Scope_Point11	Float	Amps	
4052	L1_Current_Scope_Point12	Float	Amps	
4054	L1_Current_Scope_Point13	Float	Amps	
4056	L1_Current_Scope_Point14	Float	Amps	
4058	L1_Current_Scope_Point15	Float	Amps	
4060	L1_Current_Scope_Point16	Float	Amps	
4062	L1_Current_Scope_Point17	Float	Amps	
4064	L1_Current_Scope_Point18	Float	Amps	
4066	L1_Current_Scope_Point19	Float	Amps	
4068	L1_Current_Scope_Point20	Float	Amps	
4070	L1_Current_Scope_Point21	Float	Amps	
4072	L1_Current_Scope_Point22	Float	Amps	
4074	L1_Current_Scope_Point23	Float	Amps	
4076	L1_Current_Scope_Point24	Float	Amps	
4078	L1_Current_Scope_Point25	Float	Amps	
4080	L1_Current_Scope_Point26	Float	Amps	
4082	L1_Current_Scope_Point27	Float	Amps	
4084	L1_Current_Scope_Point28	Float	Amps	
4086	L1_Current_Scope_Point29	Float	Amps	
4088	L1_Current_Scope_Point30	Float	Amps	
4090	L1_Current_Scope_Point31	Float	Amps	
4092	L2_Current_Scope_Point0	Float	Amps	
4094	L2_Current_Scope_Point1	Float	Amps	
4096	L2_Current_Scope_Point2	Float	Amps	
4098	L2_Current_Scope_Point3	Float	Amps	

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4100	L2_Current_Scope_Point4	Float	Amps	
4102	L2_Current_Scope_Point5	Float	Amps	
4104	L2_Current_Scope_Point6	Float	Amps	
4106	L2_Current_Scope_Point7	Float	Amps	
4108	L2_Current_Scope_Point8	Float	Amps	
4110	L2_Current_Scope_Point9	Float	Amps	
4112	L2_Current_Scope_Point10	Float	Amps	
4114	L2_Current_Scope_Point11	Float	Amps	
4116	L2_Current_Scope_Point12	Float	Amps	
4118	L2_Current_Scope_Point13	Float	Amps	
4120	L2_Current_Scope_Point14	Float	Amps	
4122	L2_Current_Scope_Point15	Float	Amps	
4124	L2_Current_Scope_Point16	Float	Amps	
4126	L2_Current_Scope_Point17	Float	Amps	
4128	L2_Current_Scope_Point18	Float	Amps	
4130	L2_Current_Scope_Point19	Float	Amps	
4132	L2_Current_Scope_Point20	Float	Amps	
4134	L2_Current_Scope_Point21	Float	Amps	
4136	L2_Current_Scope_Point22	Float	Amps	
4138	L2_Current_Scope_Point23	Float	Amps	
4140	L2_Current_Scope_Point24	Float	Amps	
4142	L2_Current_Scope_Point25	Float	Amps	
4144	L2_Current_Scope_Point26	Float	Amps	
4146	L2_Current_Scope_Point27	Float	Amps	
4148	L2_Current_Scope_Point28	Float	Amps	
4150	L2_Current_Scope_Point29	Float	Amps	
4152	L2_Current_Scope_Point30	Float	Amps	
4154	L2_Current_Scope_Point31	Float	Amps	
4156	L3_Current_Scope_Point0	Float	Amps	
4158	L3_Current_Scope_Point1	Float	Amps	
4160	L3_Current_Scope_Point2	Float	Amps	
4162	L3_Current_Scope_Point3	Float	Amps	
4164	L3_Current_Scope_Point4	Float	Amps	
4166	L3_Current_Scope_Point5	Float	Amps	
4168	L3_Current_Scope_Point6	Float	Amps	
4170	L3_Current_Scope_Point7	Float	Amps	
4172	L3_Current_Scope_Point8	Float	Amps	
4174	L3_Current_Scope_Point9	Float	Amps	
4176	L3_Current_Scope_Point10	Float	Amps	
4178	L3_Current_Scope_Point11	Float	Amps	
4180	L3_Current_Scope_Point12	Float	Amps	
4182	L3_Current_Scope_Point13	Float	Amps	

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4184	L3_Current_Scope_Point14	Float	Amps	
4186	L3_Current_Scope_Point15	Float	Amps	
4188	L3_Current_Scope_Point16	Float	Amps	
4190	L3_Current_Scope_Point17	Float	Amps	
4192	L3_Current_Scope_Point18	Float	Amps	
4194	L3_Current_Scope_Point19	Float	Amps	
4196	L3_Current_Scope_Point20	Float	Amps	
4198	L3_Current_Scope_Point21	Float	Amps	
4200	L3_Current_Scope_Point22	Float	Amps	
4202	L3_Current_Scope_Point23	Float	Amps	
4204	L3_Current_Scope_Point24	Float	Amps	
4206	L3_Current_Scope_Point25	Float	Amps	
4208	L3_Current_Scope_Point26	Float	Amps	
4210	L3_Current_Scope_Point27	Float	Amps	
4212	L3_Current_Scope_Point28	Float	Amps	
4214	L3_Current_Scope_Point29	Float	Amps	
4216	L3_Current_Scope_Point30	Float	Amps	
4218	L3_Current_Scope_Point31	Float	Amps	
4220	L1_Amps_10_12	Float	Amps (RMS)	
4222	L2_Amps_10_12	Float	Amps (RMS)	
4224	L3_Amps_10_12	Float	Amps (RMS)	
4226	L1_Current_Harmonic_H1	Float	Amps	
4228	L1_Current_Harmonic_H2	Float	Amps	
4230	L1_Current_Harmonic_H3	Float	Amps	
4232	L1_Current_Harmonic_H4	Float	Amps	
4234	L1_Current_Harmonic_H5	Float	Amps	
4236	L1_Current_Harmonic_H6	Float	Amps	
4238	L1_Current_Harmonic_H7	Float	Amps	
4240	L1_Current_Harmonic_H8	Float	Amps	
4242	L1_Current_Harmonic_H9	Float	Amps	
4244	L1_Current_Harmonic_H10	Float	Amps	
4246	L1_Current_Harmonic_H11	Float	Amps	
4248	L1_Current_Harmonic_H12	Float	Amps	
4250	L1_Current_Harmonic_H13	Float	Amps	
4252	L1_Current_Harmonic_H14	Float	Amps	
4254	L1_Current_Harmonic_H15	Float	Amps	
4256	L1_Current_Harmonic_H16	Float	Amps	
4258	L1_Current_Harmonic_H17	Float	Amps	
4260	L1_Current_Harmonic_H18	Float	Amps	
4262	L1_Current_Harmonic_H19	Float	Amps	
4264	L1_Current_Harmonic_H20	Float	Amps	
4266	L1_Current_Harmonic_H21	Float	Amps	

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4268	L1_Current_Harmonic_H22	Float	Amps	
4270	L1_Current_Harmonic_H23	Float	Amps	
4272	L1_Current_Harmonic_H24	Float	Amps	
4274	L1_Current_Harmonic_H25	Float	Amps	
4276	L1_Current_Harmonic_H26	Float	Amps	
4278	L1_Current_Harmonic_H27	Float	Amps	
4280	L1_Current_Harmonic_H28	Float	Amps	
4282	L1_Current_Harmonic_H29	Float	Amps	
4284	L1_Current_Harmonic_H30	Float	Amps	
4286	L1_Current_Harmonic_H31	Float	Amps	
4288	L1_Current_Harmonic_H32	Float	Amps	
4290	L1_Current_Harmonic_H33	Float	Amps	
4292	L1_Current_Harmonic_H34	Float	Amps	
4294	L1_Current_Harmonic_H35	Float	Amps	
4296	L1_Current_Harmonic_H36	Float	Amps	
4298	L1_Current_Harmonic_H37	Float	Amps	
4300	L1_Current_Harmonic_H38	Float	Amps	
4302	L1_Current_Harmonic_H39	Float	Amps	
4304	L1_Current_Harmonic_H40	Float	Amps	
4306	L1_Current_Harmonic_H41	Float	Amps	
4308	L1_Current_Harmonic_H42	Float	Amps	
4310	L1_Current_Harmonic_H43	Float	Amps	
4312	L1_Current_Harmonic_H44	Float	Amps	
4314	L1_Current_Harmonic_H45	Float	Amps	
4316	L1_Current_Harmonic_H46	Float	Amps	
4318	L1_Current_Harmonic_H47	Float	Amps	
4320	L1_Current_Harmonic_H48	Float	Amps	
4322	L1_Current_Harmonic_H49	Float	Amps	
4324	L1_Current_Harmonic_H50	Float	Amps	
4326	L2_Current_Harmonic_H1	Float	Amps	
4328	L2_Current_Harmonic_H2	Float	Amps	
4330	L2_Current_Harmonic_H3	Float	Amps	
4332	L2_Current_Harmonic_H4	Float	Amps	
4334	L2_Current_Harmonic_H5	Float	Amps	
4336	L2_Current_Harmonic_H6	Float	Amps	
4338	L2_Current_Harmonic_H7	Float	Amps	
4340	L2_Current_Harmonic_H8	Float	Amps	
4342	L2_Current_Harmonic_H9	Float	Amps	
4344	L2_Current_Harmonic_H10	Float	Amps	
4346	L2_Current_Harmonic_H11	Float	Amps	
4348	L2_Current_Harmonic_H12	Float	Amps	
4350	L2_Current_Harmonic_H13	Float	Amps	

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4352	L2_Current_Harmonic_H14	Float	Amps	
4354	L2_Current_Harmonic_H15	Float	Amps	
4356	L2_Current_Harmonic_H16	Float	Amps	
4358	L2_Current_Harmonic_H17	Float	Amps	
4360	L2_Current_Harmonic_H18	Float	Amps	
4362	L2_Current_Harmonic_H19	Float	Amps	
4364	L2_Current_Harmonic_H20	Float	Amps	
4366	L2_Current_Harmonic_H21	Float	Amps	
4368	L2_Current_Harmonic_H22	Float	Amps	
4370	L2_Current_Harmonic_H23	Float	Amps	
4372	L2_Current_Harmonic_H24	Float	Amps	
4374	L2_Current_Harmonic_H25	Float	Amps	
4376	L2_Current_Harmonic_H26	Float	Amps	
4378	L2_Current_Harmonic_H27	Float	Amps	
4380	L2_Current_Harmonic_H28	Float	Amps	
4382	L2_Current_Harmonic_H29	Float	Amps	
4384	L2_Current_Harmonic_H30	Float	Amps	
4386	L2_Current_Harmonic_H31	Float	Amps	
4388	L2_Current_Harmonic_H32	Float	Amps	
4390	L2_Current_Harmonic_H33	Float	Amps	
4392	L2_Current_Harmonic_H34	Float	Amps	
4394	L2_Current_Harmonic_H35	Float	Amps	
4396	L2_Current_Harmonic_H36	Float	Amps	
4398	L2_Current_Harmonic_H37	Float	Amps	
4400	L2_Current_Harmonic_H38	Float	Amps	
4402	L2_Current_Harmonic_H39	Float	Amps	
4404	L2_Current_Harmonic_H40	Float	Amps	
4406	L2_Current_Harmonic_H41	Float	Amps	
4408	L2_Current_Harmonic_H42	Float	Amps	
4410	L2_Current_Harmonic_H43	Float	Amps	
4412	L2_Current_Harmonic_H44	Float	Amps	
4414	L2_Current_Harmonic_H45	Float	Amps	
4416	L2_Current_Harmonic_H46	Float	Amps	
4418	L2_Current_Harmonic_H47	Float	Amps	
4420	L2_Current_Harmonic_H48	Float	Amps	
4422	L2_Current_Harmonic_H49	Float	Amps	
4424	L2_Current_Harmonic_H50	Float	Amps	
4426	L3_Current_Harmonic_H1	Float	Amps	
4428	L3_Current_Harmonic_H2	Float	Amps	
4430	L3_Current_Harmonic_H3	Float	Amps	
4432	L3_Current_Harmonic_H4	Float	Amps	
4434	L3_Current_Harmonic_H5	Float	Amps	

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4436	L3_Current_Harmonic_H6	Float	Amps	
4438	L3_Current_Harmonic_H7	Float	Amps	
4440	L3_Current_Harmonic_H8	Float	Amps	
4442	L3_Current_Harmonic_H9	Float	Amps	
4444	L3_Current_Harmonic_H10	Float	Amps	
4446	L3_Current_Harmonic_H11	Float	Amps	
4448	L3_Current_Harmonic_H12	Float	Amps	
4450	L3_Current_Harmonic_H13	Float	Amps	
4452	L3_Current_Harmonic_H14	Float	Amps	
4454	L3_Current_Harmonic_H15	Float	Amps	
4456	L3_Current_Harmonic_H16	Float	Amps	
4458	L3_Current_Harmonic_H17	Float	Amps	
4460	L3_Current_Harmonic_H18	Float	Amps	
4462	L3_Current_Harmonic_H19	Float	Amps	
4464	L3_Current_Harmonic_H20	Float	Amps	
4466	L3_Current_Harmonic_H21	Float	Amps	
4468	L3_Current_Harmonic_H22	Float	Amps	
4470	L3_Current_Harmonic_H23	Float	Amps	
4472	L3_Current_Harmonic_H24	Float	Amps	
4474	L3_Current_Harmonic_H25	Float	Amps	
4476	L3_Current_Harmonic_H26	Float	Amps	
4478	L3_Current_Harmonic_H27	Float	Amps	
4480	L3_Current_Harmonic_H28	Float	Amps	
4482	L3_Current_Harmonic_H29	Float	Amps	
4484	L3_Current_Harmonic_H30	Float	Amps	
4486	L3_Current_Harmonic_H31	Float	Amps	
4488	L3_Current_Harmonic_H32	Float	Amps	
4490	L3_Current_Harmonic_H33	Float	Amps	
4492	L3_Current_Harmonic_H34	Float	Amps	
4494	L3_Current_Harmonic_H35	Float	Amps	
4496	L3_Current_Harmonic_H36	Float	Amps	
4498	L3_Current_Harmonic_H37	Float	Amps	
4500	L3_Current_Harmonic_H38	Float	Amps	
4502	L3_Current_Harmonic_H39	Float	Amps	
4504	L3_Current_Harmonic_H40	Float	Amps	
4506	L3_Current_Harmonic_H41	Float	Amps	
4508	L3_Current_Harmonic_H42	Float	Amps	
4510	L3_Current_Harmonic_H43	Float	Amps	
4512	L3_Current_Harmonic_H44	Float	Amps	
4514	L3_Current_Harmonic_H45	Float	Amps	
4516	L3_Current_Harmonic_H46	Float	Amps	
4518	L3_Current_Harmonic_H47	Float	Amps	

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4520	L3_Current_Harmonic_H48	Float	Amps	
4522	L3_Current_Harmonic_H49	Float	Amps	
4524	L3_Current_Harmonic_H50	Float	Amps	
4526	L1_Current_Interharmonic_H0	Float	Amps	
4528	L1_Current_Interharmonic_H1	Float	Amps	
4530	L1_Current_Interharmonic_H2	Float	Amps	
4532	L1_Current_Interharmonic_H3	Float	Amps	
4534	L1_Current_Interharmonic_H4	Float	Amps	
4536	L1_Current_Interharmonic_H5	Float	Amps	
4538	L1_Current_Interharmonic_H6	Float	Amps	
4540	L1_Current_Interharmonic_H7	Float	Amps	
4542	L1_Current_Interharmonic_H8	Float	Amps	
4544	L1_Current_Interharmonic_H9	Float	Amps	
4546	L1_Current_Interharmonic_H10	Float	Amps	
4548	L1_Current_Interharmonic_H11	Float	Amps	
4550	L1_Current_Interharmonic_H12	Float	Amps	
4552	L1_Current_Interharmonic_H13	Float	Amps	
4554	L1_Current_Interharmonic_H14	Float	Amps	
4556	L1_Current_Interharmonic_H15	Float	Amps	
4558	L1_Current_Interharmonic_H16	Float	Amps	
4560	L1_Current_Interharmonic_H17	Float	Amps	
4562	L1_Current_Interharmonic_H18	Float	Amps	
4564	L1_Current_Interharmonic_H19	Float	Amps	
4566	L1_Current_Interharmonic_H20	Float	Amps	
4568	L1_Current_Interharmonic_H21	Float	Amps	
4570	L1_Current_Interharmonic_H22	Float	Amps	
4572	L1_Current_Interharmonic_H23	Float	Amps	
4574	L1_Current_Interharmonic_H24	Float	Amps	
4576	L1_Current_Interharmonic_H25	Float	Amps	
4578	L1_Current_Interharmonic_H26	Float	Amps	
4580	L1_Current_Interharmonic_H27	Float	Amps	
4582	L1_Current_Interharmonic_H28	Float	Amps	
4584	L1_Current_Interharmonic_H29	Float	Amps	
4586	L1_Current_Interharmonic_H30	Float	Amps	
4588	L1_Current_Interharmonic_H31	Float	Amps	
4590	L1_Current_Interharmonic_H32	Float	Amps	
4592	L1_Current_Interharmonic_H33	Float	Amps	
4594	L1_Current_Interharmonic_H34	Float	Amps	
4596	L1_Current_Interharmonic_H35	Float	Amps	
4598	L1_Current_Interharmonic_H36	Float	Amps	
4600	L1_Current_Interharmonic_H37	Float	Amps	
4602	L1_Current_Interharmonic_H38	Float	Amps	

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4604	L1_Current_Interharmonic_H39	Float	Amps	
4606	L1_Current_Interharmonic_H40	Float	Amps	
4608	L1_Current_Interharmonic_H41	Float	Amps	
4610	L1_Current_Interharmonic_H42	Float	Amps	
4612	L1_Current_Interharmonic_H43	Float	Amps	
4614	L1_Current_Interharmonic_H44	Float	Amps	
4616	L1_Current_Interharmonic_H45	Float	Amps	
4618	L1_Current_Interharmonic_H46	Float	Amps	
4620	L1_Current_Interharmonic_H47	Float	Amps	
4622	L1_Current_Interharmonic_H48	Float	Amps	
4624	L1_Current_Interharmonic_H49	Float	Amps	
4626	L2_Current_Interharmonic_H0	Float	Amps	
4628	L2_Current_Interharmonic_H1	Float	Amps	
4630	L2_Current_Interharmonic_H2	Float	Amps	
4632	L2_Current_Interharmonic_H3	Float	Amps	
4634	L2_Current_Interharmonic_H4	Float	Amps	
4636	L2_Current_Interharmonic_H5	Float	Amps	
4638	L2_Current_Interharmonic_H6	Float	Amps	
4640	L2_Current_Interharmonic_H7	Float	Amps	
4642	L2_Current_Interharmonic_H8	Float	Amps	
4644	L2_Current_Interharmonic_H9	Float	Amps	
4646	L2_Current_Interharmonic_H10	Float	Amps	
4648	L2_Current_Interharmonic_H11	Float	Amps	
4650	L2_Current_Interharmonic_H12	Float	Amps	
4652	L2_Current_Interharmonic_H13	Float	Amps	
4654	L2_Current_Interharmonic_H14	Float	Amps	
4656	L2_Current_Interharmonic_H15	Float	Amps	
4658	L2_Current_Interharmonic_H16	Float	Amps	
4660	L2_Current_Interharmonic_H17	Float	Amps	
4662	L2_Current_Interharmonic_H18	Float	Amps	
4664	L2_Current_Interharmonic_H19	Float	Amps	
4666	L2_Current_Interharmonic_H20	Float	Amps	
4668	L2_Current_Interharmonic_H21	Float	Amps	
4670	L2_Current_Interharmonic_H22	Float	Amps	
4672	L2_Current_Interharmonic_H23	Float	Amps	
4674	L2_Current_Interharmonic_H24	Float	Amps	
4676	L2_Current_Interharmonic_H25	Float	Amps	
4678	L2_Current_Interharmonic_H26	Float	Amps	
4680	L2_Current_Interharmonic_H27	Float	Amps	
4682	L2_Current_Interharmonic_H28	Float	Amps	
4684	L2_Current_Interharmonic_H29	Float	Amps	
4686	L2_Current_Interharmonic_H30	Float	Amps	

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4688	L2_Current_Interharmonic_H31	Float	Amps	
4690	L2_Current_Interharmonic_H32	Float	Amps	
4692	L2_Current_Interharmonic_H33	Float	Amps	
4694	L2_Current_Interharmonic_H34	Float	Amps	
4696	L2_Current_Interharmonic_H35	Float	Amps	
4698	L2_Current_Interharmonic_H36	Float	Amps	
4700	L2_Current_Interharmonic_H37	Float	Amps	
4702	L2_Current_Interharmonic_H38	Float	Amps	
4704	L2_Current_Interharmonic_H39	Float	Amps	
4706	L2_Current_Interharmonic_H40	Float	Amps	
4708	L2_Current_Interharmonic_H41	Float	Amps	
4710	L2_Current_Interharmonic_H42	Float	Amps	
4712	L2_Current_Interharmonic_H43	Float	Amps	
4714	L2_Current_Interharmonic_H44	Float	Amps	
4716	L2_Current_Interharmonic_H45	Float	Amps	
4718	L2_Current_Interharmonic_H46	Float	Amps	
4720	L2_Current_Interharmonic_H47	Float	Amps	
4722	L2_Current_Interharmonic_H48	Float	Amps	
4724	L2_Current_Interharmonic_H49	Float	Amps	
4726	L3_Current_Interharmonic_H0	Float	Amps	
4728	L3_Current_Interharmonic_H1	Float	Amps	
4730	L3_Current_Interharmonic_H2	Float	Amps	
4732	L3_Current_Interharmonic_H3	Float	Amps	
4734	L3_Current_Interharmonic_H4	Float	Amps	
4736	L3_Current_Interharmonic_H5	Float	Amps	
4738	L3_Current_Interharmonic_H6	Float	Amps	
4740	L3_Current_Interharmonic_H7	Float	Amps	
4742	L3_Current_Interharmonic_H8	Float	Amps	
4744	L3_Current_Interharmonic_H9	Float	Amps	
4746	L3_Current_Interharmonic_H10	Float	Amps	
4748	L3_Current_Interharmonic_H11	Float	Amps	
4750	L3_Current_Interharmonic_H12	Float	Amps	
4752	L3_Current_Interharmonic_H13	Float	Amps	
4754	L3_Current_Interharmonic_H14	Float	Amps	
4756	L3_Current_Interharmonic_H15	Float	Amps	
4758	L3_Current_Interharmonic_H16	Float	Amps	
4760	L3_Current_Interharmonic_H17	Float	Amps	
4762	L3_Current_Interharmonic_H18	Float	Amps	
4764	L3_Current_Interharmonic_H19	Float	Amps	
4766	L3_Current_Interharmonic_H20	Float	Amps	
4768	L3_Current_Interharmonic_H21	Float	Amps	
4770	L3_Current_Interharmonic_H22	Float	Amps	

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4772	L3_Current_Interharmonic_H23	Float	Amps	
4774	L3_Current_Interharmonic_H24	Float	Amps	
4776	L3_Current_Interharmonic_H25	Float	Amps	
4778	L3_Current_Interharmonic_H26	Float	Amps	
4780	L3_Current_Interharmonic_H27	Float	Amps	
4782	L3_Current_Interharmonic_H28	Float	Amps	
4784	L3_Current_Interharmonic_H29	Float	Amps	
4786	L3_Current_Interharmonic_H30	Float	Amps	
4788	L3_Current_Interharmonic_H31	Float	Amps	
4790	L3_Current_Interharmonic_H32	Float	Amps	
4792	L3_Current_Interharmonic_H33	Float	Amps	
4794	L3_Current_Interharmonic_H34	Float	Amps	
4796	L3_Current_Interharmonic_H35	Float	Amps	
4798	L3_Current_Interharmonic_H36	Float	Amps	
4800	L3_Current_Interharmonic_H37	Float	Amps	
4802	L3_Current_Interharmonic_H38	Float	Amps	
4804	L3_Current_Interharmonic_H39	Float	Amps	
4806	L3_Current_Interharmonic_H40	Float	Amps	
4808	L3_Current_Interharmonic_H41	Float	Amps	
4810	L3_Current_Interharmonic_H42	Float	Amps	
4812	L3_Current_Interharmonic_H43	Float	Amps	
4814	L3_Current_Interharmonic_H44	Float	Amps	
4816	L3_Current_Interharmonic_H45	Float	Amps	
4818	L3_Current_Interharmonic_H46	Float	Amps	
4820	L3_Current_Interharmonic_H47	Float	Amps	
4822	L3_Current_Interharmonic_H48	Float	Amps	
4824	L3_Current_Interharmonic_H49	Float	Amps	
4826	L1_TDD	Float	Amps	
4828	L2_TDD	Float	Amps	
4830	L3_TDD	Float	Amps	
4832	Unbalance_A_Negative_Sequence	Float	%	
4834	Unbalance_A_Zero_Sequence	Float	%	
4836	Total_Power	Float	%	
4838	L1_Power	Float	Watt	
4840	L2_Power	Float	Watt	
4842	L3_Power	Float	Watt	
4844	Reactive_Power	Float	VAR	
4846	L1_Reactive_Power	Float	VAR	
4848	L2_Reactive_Power	Float	VAR	
4850	L3_Reactive_Power	Float	VAR	
4852	Apparent_Power	Float	VA	
4854	L1_Apparent_Power	Float	VA	

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4856	L2_Apparent_Power	Float	VA	
4858	L3_Apparent_Power	Float	VA	
4860	True_Power_Factor	Float		
4862	L1_True_Power_Factor	Float		
4864	L2_True_Power_Factor	Float		
4866	L3_True_Power_Factor	Float		
4868	Reactive_Energy	Float	VARh	
4870	Reactive_Energy_1	Float	VARh	
4872	Reactive_Energy_2	Float	VARh	
4874	Reactive_Energy_3	Float	VARh	
4876	Energy	Float	Wh	
4878	Energy_1	Float	Wh	
4880	Energy_2	Float	Wh	
4882	Energy_3	Float	Wh	
4884	Apparent_Energy	Float	VAh	
4886	Apparent_Energy_1	Float	VAh	
4888	Apparent_Energy_2	Float	VAh	
4890	Apparent_Energy_3	Float	VAh	
4892	Peak_Apparent_Power_1_Cycle	Float	VA	
4894	Peak_Apparent_Power_1_Minute	Float	VA	
4896	Peak_Apparent_Power_N_Minute	Float	VA	N defined in the PQube3 configuration
4898	Peak_Power_1_Cycle	Float	Watt	
4900	Peak_Power_1_Minute	Float	Watt	
4902	Peak_Power_N_Minute	Float	Watt	
4904	Peak_Current_1_Cycle	Float	Amps	
4906	Peak_Current_1_Minute	Float	Amps	
4908	Peak_Current_N_Minute	Float	Amps	
4910	Energy_Reset_Year	Float		
4912	Energy_Reset_Month	Float		
4914	Energy_Reset_Day	Float		
4916	Peak_Reset_Year	Float		
4918	Peak_Reset_Month	Float		
4920	Peak_Reset_Day	Float		
4922	Energy_Positive	Float		
4924	Energy_1_Positive	Float		
4926	Energy_2_Positive	Float		
4928	Energy_3_Positive	Float		
4930	Energy_Negative	Float		
4932	Energy_1_Negative	Float		
4934	Energy_2_Negative	Float		
4936	Energy_3_Negative	Float		

3.5 PQube DC/HF Bank (Offset 0x6000)

This register bank focuses on DC values and high frequency harmonics. **It is new for the PQube 3.**

DC/HF Bank

Offset	Register	Format	Units	Comments
6000	AN1_E_RMS_Half	Float		Declared in PQube configuration
6002	AN2_E_RMS_Half	Float		Declared in PQube configuration
6004	AN3_E_RMS_Half	Float		Declared in PQube configuration
6006	AN4_E_RMS_Half	Float		Declared in PQube configuration
6008	AN1_AN2_RMS_Half	Float		Declared in PQube configuration
6010	AN3_AN4_RMS_Half	Float		Declared in PQube configuration
6012	Digital_1	Float		
6014	AN_Power_1	Float	Watt	Requires the configuration to declare Energy mode for Analog inputs 1 and 2
6016	AN_Power_2	Float	Watt	Requires the configuration to declare Energy mode for Analog inputs 1 and 2
6018	Analog_Energy	Float	Wh	Requires the configuration to declare Energy mode for Analog inputs 1 and 2
6020	Analog_Energy_2	Float	Wh	Requires the configuration to declare Energy mode for Analog inputs 1 and 2
6022	L1_Conducted_Emissions_2000Hz	Float	Volt	
6024	L1_Conducted_Emissions_2200Hz	Float	Volt	
6026	L1_Conducted_Emissions_2400Hz	Float	Volt	
6028	L1_Conducted_Emissions_2600Hz	Float	Volt	
6030	L1_Conducted_Emissions_2800Hz	Float	Volt	
6032	L1_Conducted_Emissions_3000Hz	Float	Volt	
6034	L1_Conducted_Emissions_3200Hz	Float	Volt	
6036	L1_Conducted_Emissions_3400Hz	Float	Volt	
6038	L1_Conducted_Emissions_3600Hz	Float	Volt	
6040	L1_Conducted_Emissions_3800Hz	Float	Volt	
6042	L1_Conducted_Emissions_4000Hz	Float	Volt	
6044	L1_Conducted_Emissions_4200Hz	Float	Volt	
6046	L1_Conducted_Emissions_4400Hz	Float	Volt	
6048	L1_Conducted_Emissions_4600Hz	Float	Volt	
6050	L1_Conducted_Emissions_4800Hz	Float	Volt	
6052	L1_Conducted_Emissions_5000Hz	Float	Volt	
6054	L1_Conducted_Emissions_5200Hz	Float	Volt	
6056	L1_Conducted_Emissions_5400Hz	Float	Volt	
6058	L1_Conducted_Emissions_5600Hz	Float	Volt	
6060	L1_Conducted_Emissions_5800Hz	Float	Volt	

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6062	L1_Conducted_Emissions_6000Hz	Float	Volt	
6064	L1_Conducted_Emissions_6200Hz	Float	Volt	
6066	L1_Conducted_Emissions_6400Hz	Float	Volt	
6068	L1_Conducted_Emissions_6600Hz	Float	Volt	
6070	L1_Conducted_Emissions_6800Hz	Float	Volt	
6072	L1_Conducted_Emissions_7000Hz	Float	Volt	
6074	L1_Conducted_Emissions_7200Hz	Float	Volt	
6076	L1_Conducted_Emissions_7400Hz	Float	Volt	
6078	L1_Conducted_Emissions_7600Hz	Float	Volt	
6080	L1_Conducted_Emissions_7800Hz	Float	Volt	
6082	L1_Conducted_Emissions_8000Hz	Float	Volt	
6084	L1_Conducted_Emissions_8200Hz	Float	Volt	
6086	L1_Conducted_Emissions_8400Hz	Float	Volt	
6088	L1_Conducted_Emissions_8600Hz	Float	Volt	
6090	L1_Conducted_Emissions_8800Hz	Float	Volt	
6092	L1_Conducted_Emissions_9000Hz	Float	Volt	
6094	L2_Conducted_Emissions_2000Hz	Float	Volt	
6096	L2_Conducted_Emissions_2200Hz	Float	Volt	
6098	L2_Conducted_Emissions_2400Hz	Float	Volt	
6100	L2_Conducted_Emissions_2600Hz	Float	Volt	
6102	L2_Conducted_Emissions_2800Hz	Float	Volt	
6104	L2_Conducted_Emissions_3000Hz	Float	Volt	
6106	L2_Conducted_Emissions_3200Hz	Float	Volt	
6108	L2_Conducted_Emissions_3400Hz	Float	Volt	
6110	L2_Conducted_Emissions_3600Hz	Float	Volt	
6112	L2_Conducted_Emissions_3800Hz	Float	Volt	
6114	L2_Conducted_Emissions_4000Hz	Float	Volt	
6116	L2_Conducted_Emissions_4200Hz	Float	Volt	
6118	L2_Conducted_Emissions_4400Hz	Float	Volt	
6120	L2_Conducted_Emissions_4600Hz	Float	Volt	
6122	L2_Conducted_Emissions_4800Hz	Float	Volt	
6124	L2_Conducted_Emissions_5000Hz	Float	Volt	
6126	L2_Conducted_Emissions_5200Hz	Float	Volt	
6128	L2_Conducted_Emissions_5400Hz	Float	Volt	
6130	L2_Conducted_Emissions_5600Hz	Float	Volt	
6132	L2_Conducted_Emissions_5800Hz	Float	Volt	
6134	L2_Conducted_Emissions_6000Hz	Float	Volt	
6136	L2_Conducted_Emissions_6200Hz	Float	Volt	
6138	L2_Conducted_Emissions_6400Hz	Float	Volt	
6140	L2_Conducted_Emissions_6600Hz	Float	Volt	
6142	L2_Conducted_Emissions_6800Hz	Float	Volt	
6144	L2_Conducted_Emissions_7000Hz	Float	Volt	

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6146	L2_Conducted_Emissions_7200Hz	Float	Volt	
6148	L2_Conducted_Emissions_7400Hz	Float	Volt	
6150	L2_Conducted_Emissions_7600Hz	Float	Volt	
6152	L2_Conducted_Emissions_7800Hz	Float	Volt	
6154	L2_Conducted_Emissions_8000Hz	Float	Volt	
6156	L2_Conducted_Emissions_8200Hz	Float	Volt	
6158	L2_Conducted_Emissions_8400Hz	Float	Volt	
6160	L2_Conducted_Emissions_8600Hz	Float	Volt	
6162	L2_Conducted_Emissions_8800Hz	Float	Volt	
6164	L2_Conducted_Emissions_9000Hz	Float	Volt	
6166	L3_Conducted_Emissions_2000Hz	Float	Volt	
6168	L3_Conducted_Emissions_2200Hz	Float	Volt	
6170	L3_Conducted_Emissions_2400Hz	Float	Volt	
6172	L3_Conducted_Emissions_2600Hz	Float	Volt	
6174	L3_Conducted_Emissions_2800Hz	Float	Volt	
6176	L3_Conducted_Emissions_3000Hz	Float	Volt	
6178	L3_Conducted_Emissions_3200Hz	Float	Volt	
6180	L3_Conducted_Emissions_3400Hz	Float	Volt	
6182	L3_Conducted_Emissions_3600Hz	Float	Volt	
6184	L3_Conducted_Emissions_3800Hz	Float	Volt	
6186	L3_Conducted_Emissions_4000Hz	Float	Volt	
6188	L3_Conducted_Emissions_4200Hz	Float	Volt	
6190	L3_Conducted_Emissions_4400Hz	Float	Volt	
6192	L3_Conducted_Emissions_4600Hz	Float	Volt	
6194	L3_Conducted_Emissions_4800Hz	Float	Volt	
6196	L3_Conducted_Emissions_5000Hz	Float	Volt	
6198	L3_Conducted_Emissions_5200Hz	Float	Volt	
6200	L3_Conducted_Emissions_5400Hz	Float	Volt	
6202	L3_Conducted_Emissions_5600Hz	Float	Volt	
6204	L3_Conducted_Emissions_5800Hz	Float	Volt	
6206	L3_Conducted_Emissions_6000Hz	Float	Volt	
6208	L3_Conducted_Emissions_6200Hz	Float	Volt	
6210	L3_Conducted_Emissions_6400Hz	Float	Volt	
6212	L3_Conducted_Emissions_6600Hz	Float	Volt	
6214	L3_Conducted_Emissions_6800Hz	Float	Volt	
6216	L3_Conducted_Emissions_7000Hz	Float	Volt	
6218	L3_Conducted_Emissions_7200Hz	Float	Volt	
6220	L3_Conducted_Emissions_7400Hz	Float	Volt	
6222	L3_Conducted_Emissions_7600Hz	Float	Volt	
6224	L3_Conducted_Emissions_7800Hz	Float	Volt	
6226	L3_Conducted_Emissions_8000Hz	Float	Volt	
6228	L3_Conducted_Emissions_8200Hz	Float	Volt	

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6230	L3_Conducted_Emissions_8400Hz	Float	Volt	
6232	L3_Conducted_Emissions_8600Hz	Float	Volt	
6234	L3_Conducted_Emissions_8800Hz	Float	Volt	
6236	L3_Conducted_Emissions_9000Hz	Float	Volt	
6238	L1_Conducted_Emissions_8K	Float	Volt	
6240	L1_Conducted_Emissions_10K	Float	Volt	
6242	L1_Conducted_Emissions_12K	Float	Volt	
6244	L1_Conducted_Emissions_14K	Float	Volt	
6246	L1_Conducted_Emissions_16K	Float	Volt	
6248	L1_Conducted_Emissions_18K	Float	Volt	
6250	L1_Conducted_Emissions_20k	Float	Volt	
6252	L1_Conducted_Emissions_22k	Float	Volt	
6254	L1_Conducted_Emissions_24k	Float	Volt	
6256	L1_Conducted_Emissions_26k	Float	Volt	
6258	L1_Conducted_Emissions_28k	Float	Volt	
6260	L1_Conducted_Emissions_30k	Float	Volt	
6262	L1_Conducted_Emissions_32k	Float	Volt	
6264	L1_Conducted_Emissions_34k	Float	Volt	
6266	L1_Conducted_Emissions_36k	Float	Volt	
6268	L1_Conducted_Emissions_38k	Float	Volt	
6270	L1_Conducted_Emissions_40k	Float	Volt	
6272	L1_Conducted_Emissions_42k	Float	Volt	
6274	L1_Conducted_Emissions_44k	Float	Volt	
6276	L1_Conducted_Emissions_46k	Float	Volt	
6278	L1_Conducted_Emissions_48k	Float	Volt	
6280	L1_Conducted_Emissions_50k	Float	Volt	
6282	L1_Conducted_Emissions_52k	Float	Volt	
6284	L1_Conducted_Emissions_54k	Float	Volt	
6286	L1_Conducted_Emissions_56k	Float	Volt	
6288	L1_Conducted_Emissions_58k	Float	Volt	
6290	L1_Conducted_Emissions_60k	Float	Volt	
6292	L1_Conducted_Emissions_62k	Float	Volt	
6294	L1_Conducted_Emissions_64k	Float	Volt	
6296	L1_Conducted_Emissions_66k	Float	Volt	
6298	L1_Conducted_Emissions_68k	Float	Volt	
6300	L1_Conducted_Emissions_70k	Float	Volt	
6302	L1_Conducted_Emissions_72k	Float	Volt	
6304	L1_Conducted_Emissions_74k	Float	Volt	
6306	L1_Conducted_Emissions_76k	Float	Volt	
6308	L1_Conducted_Emissions_78k	Float	Volt	
6310	L1_Conducted_Emissions_80k	Float	Volt	
6312	L1_Conducted_Emissions_82k	Float	Volt	

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6314	L1_Conducted_Emissions_84k	Float	Volt	
6316	L1_Conducted_Emissions_86k	Float	Volt	
6318	L1_Conducted_Emissions_88k	Float	Volt	
6320	L1_Conducted_Emissions_90k	Float	Volt	
6322	L1_Conducted_Emissions_92k	Float	Volt	
6324	L1_Conducted_Emissions_94k	Float	Volt	
6326	L1_Conducted_Emissions_96k	Float	Volt	
6328	L1_Conducted_Emissions_98k	Float	Volt	
6330	L1_Conducted_Emissions_100k	Float	Volt	
6332	L1_Conducted_Emissions_102k	Float	Volt	
6334	L1_Conducted_Emissions_104k	Float	Volt	
6336	L1_Conducted_Emissions_106k	Float	Volt	
6338	L1_Conducted_Emissions_108k	Float	Volt	
6340	L1_Conducted_Emissions_110k	Float	Volt	
6342	L1_Conducted_Emissions_112k	Float	Volt	
6344	L1_Conducted_Emissions_114k	Float	Volt	
6346	L1_Conducted_Emissions_116k	Float	Volt	
6348	L1_Conducted_Emissions_118k	Float	Volt	
6350	L1_Conducted_Emissions_120k	Float	Volt	
6352	L1_Conducted_Emissions_122k	Float	Volt	
6354	L1_Conducted_Emissions_124k	Float	Volt	
6356	L1_Conducted_Emissions_126k	Float	Volt	
6358	L1_Conducted_Emissions_128k	Float	Volt	
6360	L1_Conducted_Emissions_130k	Float	Volt	
6362	L1_Conducted_Emissions_132k	Float	Volt	
6364	L1_Conducted_Emissions_134k	Float	Volt	
6366	L1_Conducted_Emissions_136k	Float	Volt	
6368	L1_Conducted_Emissions_138k	Float	Volt	
6370	L1_Conducted_Emissions_140k	Float	Volt	
6372	L1_Conducted_Emissions_142k	Float	Volt	
6374	L1_Conducted_Emissions_144k	Float	Volt	
6376	L1_Conducted_Emissions_146k	Float	Volt	
6378	L1_Conducted_Emissions_148k	Float	Volt	
6380	L1_Conducted_Emissions_150k	Float	Volt	
6382	L2_Conducted_Emissions_8K	Float	Volt	
6384	L2_Conducted_Emissions_10K	Float	Volt	
6386	L2_Conducted_Emissions_12K	Float	Volt	
6388	L2_Conducted_Emissions_14K	Float	Volt	
6390	L2_Conducted_Emissions_16K	Float	Volt	
6392	L2_Conducted_Emissions_18K	Float	Volt	
6394	L2_Conducted_Emissions_20k	Float	Volt	
6396	L2_Conducted_Emissions_22k	Float	Volt	

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6398	L2_Conducted_Emissions_24k	Float	Volt	
6400	L2_Conducted_Emissions_26k	Float	Volt	
6402	L2_Conducted_Emissions_28k	Float	Volt	
6404	L2_Conducted_Emissions_30k	Float	Volt	
6406	L2_Conducted_Emissions_32k	Float	Volt	
6408	L2_Conducted_Emissions_34k	Float	Volt	
6410	L2_Conducted_Emissions_36k	Float	Volt	
6412	L2_Conducted_Emissions_38k	Float	Volt	
6414	L2_Conducted_Emissions_40k	Float	Volt	
6416	L2_Conducted_Emissions_42k	Float	Volt	
6418	L2_Conducted_Emissions_44k	Float	Volt	
6420	L2_Conducted_Emissions_46k	Float	Volt	
6422	L2_Conducted_Emissions_48k	Float	Volt	
6424	L2_Conducted_Emissions_50k	Float	Volt	
6426	L2_Conducted_Emissions_52k	Float	Volt	
6428	L2_Conducted_Emissions_54k	Float	Volt	
6430	L2_Conducted_Emissions_56k	Float	Volt	
6432	L2_Conducted_Emissions_58k	Float	Volt	
6434	L2_Conducted_Emissions_60k	Float	Volt	
6436	L2_Conducted_Emissions_62k	Float	Volt	
6438	L2_Conducted_Emissions_64k	Float	Volt	
6440	L2_Conducted_Emissions_66k	Float	Volt	
6442	L2_Conducted_Emissions_68k	Float	Volt	
6444	L2_Conducted_Emissions_70k	Float	Volt	
6446	L2_Conducted_Emissions_72k	Float	Volt	
6448	L2_Conducted_Emissions_74k	Float	Volt	
6450	L2_Conducted_Emissions_76k	Float	Volt	
6452	L2_Conducted_Emissions_78k	Float	Volt	
6454	L2_Conducted_Emissions_80k	Float	Volt	
6456	L2_Conducted_Emissions_82k	Float	Volt	
6458	L2_Conducted_Emissions_84k	Float	Volt	
6460	L2_Conducted_Emissions_86k	Float	Volt	
6462	L2_Conducted_Emissions_88k	Float	Volt	
6464	L2_Conducted_Emissions_90k	Float	Volt	
6466	L2_Conducted_Emissions_92k	Float	Volt	
6468	L2_Conducted_Emissions_94k	Float	Volt	
6470	L2_Conducted_Emissions_96k	Float	Volt	
6472	L2_Conducted_Emissions_98k	Float	Volt	
6474	L2_Conducted_Emissions_100k	Float	Volt	
6476	L2_Conducted_Emissions_102k	Float	Volt	
6478	L2_Conducted_Emissions_104k	Float	Volt	
6480	L2_Conducted_Emissions_106k	Float	Volt	

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6482	L2_Conducted_Emissions_108k	Float	Volt	
6484	L2_Conducted_Emissions_110k	Float	Volt	
6486	L2_Conducted_Emissions_112k	Float	Volt	
6488	L2_Conducted_Emissions_114k	Float	Volt	
6490	L2_Conducted_Emissions_116k	Float	Volt	
6492	L2_Conducted_Emissions_118k	Float	Volt	
6494	L2_Conducted_Emissions_120k	Float	Volt	
6496	L2_Conducted_Emissions_122k	Float	Volt	
6498	L2_Conducted_Emissions_124k	Float	Volt	
6500	L2_Conducted_Emissions_126k	Float	Volt	
6502	L2_Conducted_Emissions_128k	Float	Volt	
6504	L2_Conducted_Emissions_130k	Float	Volt	
6506	L2_Conducted_Emissions_132k	Float	Volt	
6508	L2_Conducted_Emissions_134k	Float	Volt	
6510	L2_Conducted_Emissions_136k	Float	Volt	
6512	L2_Conducted_Emissions_138k	Float	Volt	
6514	L2_Conducted_Emissions_140k	Float	Volt	
6516	L2_Conducted_Emissions_142k	Float	Volt	
6518	L2_Conducted_Emissions_144k	Float	Volt	
6520	L2_Conducted_Emissions_146k	Float	Volt	
6522	L2_Conducted_Emissions_148k	Float	Volt	
6524	L2_Conducted_Emissions_150k	Float	Volt	
6526	L3_Conducted_Emissions_8K	Float	Volt	
6528	L3_Conducted_Emissions_10K	Float	Volt	
6530	L3_Conducted_Emissions_12K	Float	Volt	
6532	L3_Conducted_Emissions_14K	Float	Volt	
6534	L3_Conducted_Emissions_16K	Float	Volt	
6536	L3_Conducted_Emissions_18K	Float	Volt	
6538	L3_Conducted_Emissions_20k	Float	Volt	
6540	L3_Conducted_Emissions_22k	Float	Volt	
6542	L3_Conducted_Emissions_24k	Float	Volt	
6544	L3_Conducted_Emissions_26k	Float	Volt	
6546	L3_Conducted_Emissions_28k	Float	Volt	
6548	L3_Conducted_Emissions_30k	Float	Volt	
6550	L3_Conducted_Emissions_32k	Float	Volt	
6552	L3_Conducted_Emissions_34k	Float	Volt	
6554	L3_Conducted_Emissions_36k	Float	Volt	
6556	L3_Conducted_Emissions_38k	Float	Volt	
6558	L3_Conducted_Emissions_40k	Float	Volt	
6560	L3_Conducted_Emissions_42k	Float	Volt	
6562	L3_Conducted_Emissions_44k	Float	Volt	
6564	L3_Conducted_Emissions_46k	Float	Volt	

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6566	L3_Conducted_Emissions_48k	Float	Volt	
6568	L3_Conducted_Emissions_50k	Float	Volt	
6570	L3_Conducted_Emissions_52k	Float	Volt	
6572	L3_Conducted_Emissions_54k	Float	Volt	
6574	L3_Conducted_Emissions_56k	Float	Volt	
6576	L3_Conducted_Emissions_58k	Float	Volt	
6578	L3_Conducted_Emissions_60k	Float	Volt	
6580	L3_Conducted_Emissions_62k	Float	Volt	
6582	L3_Conducted_Emissions_64k	Float	Volt	
6584	L3_Conducted_Emissions_66k	Float	Volt	
6586	L3_Conducted_Emissions_68k	Float	Volt	
6588	L3_Conducted_Emissions_70k	Float	Volt	
6590	L3_Conducted_Emissions_72k	Float	Volt	
6592	L3_Conducted_Emissions_74k	Float	Volt	
6594	L3_Conducted_Emissions_76k	Float	Volt	
6596	L3_Conducted_Emissions_78k	Float	Volt	
6598	L3_Conducted_Emissions_80k	Float	Volt	
6600	L3_Conducted_Emissions_82k	Float	Volt	
6602	L3_Conducted_Emissions_84k	Float	Volt	
6604	L3_Conducted_Emissions_86k	Float	Volt	
6606	L3_Conducted_Emissions_88k	Float	Volt	
6608	L3_Conducted_Emissions_90k	Float	Volt	
6610	L3_Conducted_Emissions_92k	Float	Volt	
6612	L3_Conducted_Emissions_94k	Float	Volt	
6614	L3_Conducted_Emissions_96k	Float	Volt	
6616	L3_Conducted_Emissions_98k	Float	Volt	
6618	L3_Conducted_Emissions_100k	Float	Volt	
6620	L3_Conducted_Emissions_102k	Float	Volt	
6622	L3_Conducted_Emissions_104k	Float	Volt	
6624	L3_Conducted_Emissions_106k	Float	Volt	
6626	L3_Conducted_Emissions_108k	Float	Volt	
6628	L3_Conducted_Emissions_110k	Float	Volt	
6630	L3_Conducted_Emissions_112k	Float	Volt	
6632	L3_Conducted_Emissions_114k	Float	Volt	
6634	L3_Conducted_Emissions_116k	Float	Volt	
6636	L3_Conducted_Emissions_118k	Float	Volt	
6638	L3_Conducted_Emissions_120k	Float	Volt	
6640	L3_Conducted_Emissions_122k	Float	Volt	
6642	L3_Conducted_Emissions_124k	Float	Volt	
6644	L3_Conducted_Emissions_126k	Float	Volt	
6646	L3_Conducted_Emissions_128k	Float	Volt	
6648	L3_Conducted_Emissions_130k	Float	Volt	

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6650	L3_Conducted_Emissions_132k	Float	Volt	
6652	L3_Conducted_Emissions_134k	Float	Volt	
6654	L3_Conducted_Emissions_136k	Float	Volt	
6656	L3_Conducted_Emissions_138k	Float	Volt	
6658	L3_Conducted_Emissions_140k	Float	Volt	
6660	L3_Conducted_Emissions_142k	Float	Volt	
6662	L3_Conducted_Emissions_144k	Float	Volt	
6664	L3_Conducted_Emissions_146k	Float	Volt	
6666	L3_Conducted_Emissions_148k	Float	Volt	
6668	L3_Conducted_Emissions_150k	Float	Volt	
6670	N_Conducted_Emissions_8K	Float	Volt	
6672	N_Conducted_Emissions_10K	Float	Volt	
6674	N_Conducted_Emissions_12K	Float	Volt	
6676	N_Conducted_Emissions_14K	Float	Volt	
6678	N_Conducted_Emissions_16K	Float	Volt	
6680	N_Conducted_Emissions_18K	Float	Volt	
6682	N_Conducted_Emissions_20k	Float	Volt	
6684	N_Conducted_Emissions_22k	Float	Volt	
6686	N_Conducted_Emissions_24k	Float	Volt	
6688	N_Conducted_Emissions_26k	Float	Volt	
6690	N_Conducted_Emissions_28k	Float	Volt	
6692	N_Conducted_Emissions_30k	Float	Volt	
6694	N_Conducted_Emissions_32k	Float	Volt	
6696	N_Conducted_Emissions_34k	Float	Volt	
6698	N_Conducted_Emissions_36k	Float	Volt	
6700	N_Conducted_Emissions_38k	Float	Volt	
6702	N_Conducted_Emissions_40k	Float	Volt	
6704	N_Conducted_Emissions_42k	Float	Volt	
6706	N_Conducted_Emissions_44k	Float	Volt	
6708	N_Conducted_Emissions_46k	Float	Volt	
6710	N_Conducted_Emissions_48k	Float	Volt	
6712	N_Conducted_Emissions_50k	Float	Volt	
6714	N_Conducted_Emissions_52k	Float	Volt	
6716	N_Conducted_Emissions_54k	Float	Volt	
6718	N_Conducted_Emissions_56k	Float	Volt	
6720	N_Conducted_Emissions_58k	Float	Volt	
6722	N_Conducted_Emissions_60k	Float	Volt	
6724	N_Conducted_Emissions_62k	Float	Volt	
6726	N_Conducted_Emissions_64k	Float	Volt	
6728	N_Conducted_Emissions_66k	Float	Volt	
6730	N_Conducted_Emissions_68k	Float	Volt	
6732	N_Conducted_Emissions_70k	Float	Volt	

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6734	N_Conducted_Emissions_72k	Float	Volt	
6736	N_Conducted_Emissions_74k	Float	Volt	
6738	N_Conducted_Emissions_76k	Float	Volt	
6740	N_Conducted_Emissions_78k	Float	Volt	
6742	N_Conducted_Emissions_80k	Float	Volt	
6744	N_Conducted_Emissions_82k	Float	Volt	
6746	N_Conducted_Emissions_84k	Float	Volt	
6748	N_Conducted_Emissions_86k	Float	Volt	
6750	N_Conducted_Emissions_88k	Float	Volt	
6752	N_Conducted_Emissions_90k	Float	Volt	
6754	N_Conducted_Emissions_92k	Float	Volt	
6756	N_Conducted_Emissions_94k	Float	Volt	
6758	N_Conducted_Emissions_96k	Float	Volt	
6760	N_Conducted_Emissions_98k	Float	Volt	
6762	N_Conducted_Emissions_100k	Float	Volt	
6764	N_Conducted_Emissions_102k	Float	Volt	
6766	N_Conducted_Emissions_104k	Float	Volt	
6768	N_Conducted_Emissions_106k	Float	Volt	
6770	N_Conducted_Emissions_108k	Float	Volt	
6772	N_Conducted_Emissions_110k	Float	Volt	
6774	N_Conducted_Emissions_112k	Float	Volt	
6776	N_Conducted_Emissions_114k	Float	Volt	
6778	N_Conducted_Emissions_116k	Float	Volt	
6780	N_Conducted_Emissions_118k	Float	Volt	
6782	N_Conducted_Emissions_120k	Float	Volt	
6784	N_Conducted_Emissions_122k	Float	Volt	
6786	N_Conducted_Emissions_124k	Float	Volt	
6788	N_Conducted_Emissions_126k	Float	Volt	
6790	N_Conducted_Emissions_128k	Float	Volt	
6792	N_Conducted_Emissions_130k	Float	Volt	
6794	N_Conducted_Emissions_132k	Float	Volt	
6796	N_Conducted_Emissions_134k	Float	Volt	
6798	N_Conducted_Emissions_136k	Float	Volt	
6800	N_Conducted_Emissions_138k	Float	Volt	
6802	N_Conducted_Emissions_140k	Float	Volt	
6804	N_Conducted_Emissions_142k	Float	Volt	
6806	N_Conducted_Emissions_144k	Float	Volt	
6808	N_Conducted_Emissions_146k	Float	Volt	
6810	N_Conducted_Emissions_148k	Float	Volt	
6812	N_Conducted_Emissions_150k	Float	Volt	
6814	Internal_Temperature	Float	DegC	
6816	Battery_Cycles	Float		

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6818	Battery_Current	Float	Amps	
6820	Battery_Voltage	Float	Volt	
6822	Ext_Probe_1_Ambient_Temp	Float	DegC	
6824	Ext_Probe_1_Humidity	Float	%RH	
6826	Ext_Probe_1_Pressure	Float	HPa	
6828	Ext_Probe_1_Surface_Temp	Float	DegC	
6830	Ext_Probe_1_Change_In_X	Float		
6832	Ext_Probe_1_Change_In_Y	Float		
6834	Ext_Probe_1_Change_In_Z	Float		
6836	Ext_Probe_1_Tilt Angle	Float	Meters per Second^2	
6838	Ext_Probe_2_Ambient_Temp	Float	DegC	
6840	Ext_Probe_2_Humidity	Float	%RH	
6842	Ext_Probe_2_Pressure	Float	HPa	
6844	Ext_Probe_2_Surface_Temp	Float	DegC	
6846	Ext_Probe_2_Change_In_X	Float		
6848	Ext_Probe_2_Change_In_Y	Float		
6850	Ext_Probe_2_Change_In_Z	Float		
6852	Ext_Probe_2_Tilt Angle	Float	Meters per Second^2	Instantaneous tilt angle, measured at 1Hz
6854	Total_Max_2-9_Bin_Magnitude	Float	Volt	
6856	Total_Max_2-Freq	Float	Hz	
6858	Total_Max_8-150_Bin_Magnitude	Float	Volt	
6860	Total_Max_8-150_Freq	Float	Hz	
6862	L1_Max_2-9_Bin_Magnitude	Float	Volt	
6864	L1_Max_2-Freq	Float	Hz	
6866	L1_Max_8-150_Bin_Magnitude	Float	Volt	
6868	L1_Max_8-150_Freq	Float	Hz	
6870	L2_Max_2-9_Bin_Magnitude	Float	Volt	
6872	L2_Max_2-Freq	Float	Hz	
6874	L2_Max_8-150_Bin_Magnitude	Float	Volt	
6876	L2_Max_8-150_Freq	Float	Hz	
6878	L3_Max_2-9_Bin_Magnitude	Float	Volt	
6880	L3_Max_2-Freq	Float	Hz	
6882	L3_Max_8-150_Bin_Magnitude	Float	Volt	
6884	L3_Max_8-150_Freq	Float	Hz	
6886	AN_Energy_Reset_Year	Float		
6888	AN_Energy_Reset_Month	Float		
6890	AN_Energy_Reset_Day	Float		
6892	PQube_Time_Year	Float		
6894	PQube_Time_Month	Float		
6896	PQube_Time_Day	Float		
6898	PQube_Time_Hour	Float		

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6900	PQube_Time_Minute	Float		
6902	PQube_Time_Second	Float		
6904	Ext_Probe_1_Trigger Snapshot	Write	1	Writing to this register triggers a Probe A accelerometer snapshot event
6906	Ext_Probe_2_Trigger Snapshot	Write	1	Writing to this register triggers a Probe A accelerometer snapshot event
6908	Ext_Probe_1_Firmware_Version	Float		Probe 1 firmware version
6910	Ext_Probe_2_Firmware_Version	Float		Probe 2 firmware version
6912	Ext_Probe_1_Model_Number	Float		Probe 1 model number (1,2,3) for ENV1, ENV2, or ENV3
6914	Ext_Probe_2_Model_Number	Float		Probe 2 model number (1,2,3) for ENV1, ENV2, or ENV3
6916	Ext_Probe_1_ThermoCouple_1_Temp	Float	Degrees C	Not yet enabled
6918	Ext_Probe_1_ThermoCouple_2_Temp	Float	Degrees C	Not yet enabled
6920	Ext_Probe_1_Acceleration_Min_X	Float	Meters per Second ²	Minimum X axis acceleration over the last second, measured at 32 HZ
6922	Ext_Probe_1_Acceleration_Avg_X	Float	Meters per Second ²	Average X axis acceleration over the last second, measured at 32 HZ
6924	Ext_Probe_1_Acceleration_Max_X	Float	Meters per Second ²	Maximum X axis acceleration over the last second, measured at 32 HZ
6926	Ext_Probe_1_Acceleration_Min_Y	Float	Meters per Second ²	Minimum Y axis acceleration over the last second, measured at 32 HZ
6928	Ext_Probe_1_Acceleration_Avg_Y	Float	Meters per Second ²	Average Y axis acceleration over the last second, measured at 32 HZ
6930	Ext_Probe_1_Acceleration_Max_Y	Float	Meters per Second ²	Maximum Y axis acceleration over the last second, measured at 32 HZ
6932	Ext_Probe_1_Acceleration_Min_Z	Float	Meters per Second ²	Minimum Z axis acceleration over the last second, measured at 32 HZ
6934	Ext_Probe_1_Acceleration_Avg_Z	Float	Meters per Second ²	Average Z axis acceleration over the last second, measured at 32 HZ
6936	Ext_Probe_1_Acceleration_Max_Z	Float	Meters per Second ²	Maximum Z axis acceleration over the last second, measured at 32 HZ
6938	Ext_Probe_1_Vector_Acceleration_Amplitude_Min	Float	Meters per Second ²	Maximum vector acceleration amplitude over the last second, measured at 32 HZ
6940	Ext_Probe_1_Vector_Acceleration_Amplitude_Min	Float	Meters per Second ²	Maximum vector acceleration amplitude over the last second, measured at 32 HZ
6942	Ext_Probe_1_Vector_Acceleration_Amplitude_Min	Float	Meters per Second ²	Maximum vector acceleration amplitude over the last second, measured at 32 HZ
6944	Ext_Probe_2_ThermoCouple_1_Temp	Float	Degrees C	Not yet enabled
6946	Ext_Probe_2_ThermoCouple_2_Temp	Float	Degrees C	Not yet enabled
6948	Ext_Probe_2_Acceleration_Min_X	Float	Meters per Second ²	Minimum X axis acceleration over the last second, measured at 32 HZ
6950	Ext_Probe_2_Acceleration_Avg_X	Float	Meters per Second ²	Average X axis acceleration over the last second, measured at 32 HZ
6952	Ext_Probe_2_Acceleration_Max_X	Float	Meters per Second ²	Maximum X axis acceleration over the last second, measured at 32 HZ
6954	Ext_Probe_2_Acceleration_Min_Y	Float	Meters per Second ²	Minimum Y axis acceleration over the last second, measured at 32 HZ
6956	Ext_Probe_2_Acceleration_Avg_Y	Float	Meters per Second ²	Average Y axis acceleration over the last second, measured at 32 HZ
6958	Ext_Probe_2_Acceleration_Max_Y	Float	Meters per Second ²	Maximum Y axis acceleration over the last second, measured at 32 HZ
6960	Ext_Probe_2_Acceleration_Min_Z	Float	Meters per Second ²	Minimum Z axis acceleration over the last second, measured at 32 HZ

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6962	Ext_Probe_2_Acceleration_Avg_Z	Float	Meters per Second ²	Average Z axis acceleration over the last second, measured at 32 HZ
6964	Ext_Probe_2_Acceleration_Max_Z	Float	Meters per Second ²	Maximum Z axis acceleration over the last second, measured at 32 HZ
6966	Ext_Probe_2_Vector_Acceleration_Amplitude_Min	Float	Meters per Second ²	Maximum vector acceleration amplitude over the last second, measured at 32 HZ
6968	Ext_Probe_2_Vector_Acceleration_Amplitude_Min	Float	Meters per Second ²	Maximum vector acceleration amplitude over the last second, measured at 32 HZ
6970	Ext_Probe_2_Vector_Acceleration_Amplitude_Min	Float	Meters per Second ²	Maximum vector acceleration amplitude over the last second, measured at 32 HZ