



1.3 Warranty

The warranty for the instrument is 2 years – usual operating conditions preconditioned.

1.4 Recycling

- This is an electronic instrument and must be recycled according to the WEEE – directive. Do not throw away.
- More information see:
http://ec.europa.eu/environment/waste/weee/index_en.htm
- Dispose of the test set in accordance with the legal environmental regulations in the country.



1.5 CE Conformity

- This instrument is compliant with the CE - requirements.
- **EMC Directive 2014/30/EU**
- **Test Procedure:**
 - EN 55011: 2009 + A1:2010(Group 1), Class A
 - EN 61326-1: 2013
 - EN 61000-3-2: 2014
 - EN 61000-3-3: 2013
- **EMI (EN55011):**
 - Conducted Emission (CE)
 - Radiated Emission (RE)
- **EMS (EN61000-4-2 ~ 11):**
 - Electrostatic discharge (ESD: EN61000-4-2)
 - Radiated RF immunity (RS: EN61000-4-3)
 - Electrical Fast Transient/BURST (EFT: EN61000-4-4)
 - Surge (Surge: EN61000-4-5)
 - Conducted RF immunity (CS: EN61000-4-6)
 - Voltage dip/interruption (DIP: EN61000-4-8/11)
- **Safety: EN 61010-1: 2010**



1.6 RoHS

- This product is compliant with the RoHS - Directive.
- For further information see:
http://ec.europa.eu/environment/waste/rohs_eee/index_en.htm



2.8 Specifications

PQA7000 (48ksps)			
		HV	LV
CH	Voltage		4
	Current		5 (LEMO)
Input Range	Voltage		±1600Vp MAX ±800Vp MAX
	Current	Clamp	±2Vp MAX
		Rogowski	±2Vp MAX
		Direct Current	external sensor
DC Accuracy		±0.05%FS	±0.05%FS
Gain	Voltage		1, 2
	Current	Clamp	-
		Rogowski	1,2,5,10
		Integrator@50Hz	1,10
Gain Linearity		-	10ppm (MAX)
Gain Drift Range		-	10ppm/K (MAX)
Offset Drift		6mV/K (MAX)	9uV/K (MAX)
Input Resistance		10Mohm	10Mohm
ADC	Type		DeltaSigma
	Oversampling Frequency		9MHz(Typ)
	Data rate		48ksps(MAX)
Filter BandWidth	-3dB BW	Analog	180kHz 4th Order Butterworth
			23.4kHz@48ksps
			19.5kHz@40ksps
			11.5kHz@24ksps
			9.6kHz@20ksps,140ksps
			3.1kHz@12ksps,6ksps
			2.6kHz@10ksps,5ksps
	-0.1dB BW	Analog	61kHz 4th Order Butterworth
			22.9kHz@48ksps (no filter)
			19.1kHz@40ksps (no filter)
			11kHz@24ksps (1FIR 700order)
			9.2kHz@20ksps,140ksps (1FIR 700order)
			3kHz@12ksps,6ksps (2FIR 700order)
			2.5kHz@10ksps,5ksps (2FIR 700order)
Measuring BandWidth	-3dB		23kHz
	-0.1dB		22kHz
Typical SNR		95dB	
Typical CMRR		90dB	
Current Sensor Power		-	±15V(1.3A)
Sensor TEDS	Current	-	1 TEDS / CH
Isolation Type		CH-GND	Sensor Isolation
Isolation Voltage		6kVp	Sensor Isolation
Digital Input	CH	4	



	Isolation Type	CH-GND 3kVp Isolation	
	Schematic	Buffer Input, 1M Ω Input Impedance	
	Positive Trigger Voltage	Adjustable 0~50V (CH1~2)	
	Negative Trigger Voltage	Adjustable 0~50V (CH1~2)	
	Trigger Resolution	12mV	
	EXT Power for DI	12V, Not Isolated	
CAN	CH	1	
	Isolation Type	CH-GND	
	Termination Resistor	None, 100 Ω Selectable	
RS485	CH	1	
	Isolation Type	CH-GND	
	Termination Resistor	120 Ω	
	Schematic	5V, 1.2k Pullup Pulldown Resistor	
GPS	Possible		
UPS (Interruption)	2hrs, Battery Gauge LED		
Measurement Category @<Pollution Degree 2	CATIII 1000Vrms, CATIV 600Vrms		
Surge	\pm 4000V	\pm 4000V	\pm 4000V
Burst	\pm 4000V	\pm 4000V	\pm 4000V

Environment and Mechanical

Processor	Intel®QuadCore		
Storage	32GB eMMC and 1x USB 256GB		
Display	7inch TFT LCD		
UPS (Interruption)	2hours (Typ.), Battery Gauge LED		
Power consumption	Typ. 40W		
Weight	2.3kg / 5 pound		
Size (width x length x height)	250 x 190 x 80 mm		
	9.84 x 7x5 x 3.2 inch		
Temperature range	Operating	0°C ~ +60°C	
	Storing	-20°C ~ +80°C	

2.9 Accessories

Please check the NEO Messtechnik brochure or webpage (www.neo-messtechnik.com) to see all available accessories for the instrument.