



Energy Management Modular Smart Power Quality Analyzer Type WM5-96



- MODBUS RTU and TCP, JBUS protocol, iFIX SCADA compatibility
- Real time clock function (without back-up)
- Up to 12 optional digital inputs (sync function, remote digital input control)
- Up to 16 optional digital outputs (pulse, alarm, remote control)
- 16 freely configurable alarms with OR/AND logic linkable with up to 4 relay outputs and up to 16 open collector outputs
- Up to 8 optional analogue outputs (+20mA, +10VDC, +/- 5mA)
- Universal power supply: 18-60VAC/VDC, 90-260 VAC/VDC
- Front protection degree: IP 65, NEMA4x, NEMA12

- Class 0.2 (current/voltage)
- ARM[®] powered
- Back-lighted graph display (128x64 dots)
- Bargraph indication of instantaneous power (kW)
- Front size: 96x96 mm
- Measurement of single phase and system instantaneous variables: W, var, VA, PF, VLL, VLN, AL, An, Hz, THD, ASY VLL, ASY VLN (for all measurements max, min, dmd/AVG and max dmd/AVG values)
- Measured energies (imported/exported): kWh and kvarh
- Current and voltage inputs with autoranging capability
- 4x4 DGT instantaneous variable read-out
- 4x9 DGT total energies read-out
- 4x9 DGT partial energies read-out
- Energy measurements according to ANSI C12.20, CA 0.5, EN62053-22 CL 0.5S and ANSI C12.1, EN62053-23 CL 2
- 4 total 3-phase, 48 partial 3-phase and 12 total single phase independent energy meters to be used as single, dual, multi-time tariff management
- Display refresh rate: 10 samples/s
- Harmonic distortion analysis (FFT) up to the 63rd harmonic with graphic and numeric indication (current and voltage)
- Harmonics source detection
- Data stamping of up to 10,000 events: alarm, min, max, digital input status, digital output status as remote control, resets
- 4 independent communication ports: optical front communication port (ANSI C12.18) optional RS 422/485 serial port, optional RS232 + real time clock function, optional Ethernet port

Product Description

3-phase utility grade power quality analyzer. Particularly recommended for the measurement of the main electrical variables.
Housing for panel mounting, with optical communication port (according to the ANSI standards), RS485/RS232 or Ethernet communication ports, pulse and alarm outputs.

Modules Combination

Description	Part N.	Slot A	Slot B	Slot C	Slot D	Slot E
WM5-96 base with ANSI local port	AD2001					
WM5-96 base without local port	AD2000					
Power supply (18-60VAC/DC)	AP1021					
Power supply (90-260VAC/DC)	AP1020					
Measuring input (AV5: 400/690VL-L)	AQ2030					
Measuring input (AV6: 120/208VL-L)	AQ2031					
RS485 port (9 600 bps)	AR1034		1-port			
RS485 port (115,200 bps)	AR2040		1-port			
Ethernet/Internet port	AR1061	1-port				
Analogue output (20mA DC)	AO2050	2-out	2-out			
Analogue output (10V DC)	AO2051	2-out	2-out	2-out	2-out	
Analogue output (+/-5mA DC)	AO2052	2-out	2-out	2-out	2-out	
Relay output	AQ1058	1-out	1-out	1-out	1-out	
Relay output	AO1035			2-out	2-out	
Open collector output	AO1059	1-out	1-out	1-out	1-out	
Open collector output	AO1036	2-out	2-out	2-out	2-out	
Open collector output	AO1037	4-out	4-out	4-out	4-out	
Digital inputs	AQ1038	3-in	3-in	3-in	3-in	
Digital inputs + Aux	AQ1042	3-in	3-in	3-in	3-in	
RS232 port + RTC (9 600 bps)	AR1039					1-port

Specifications are subject to change without notice

1

1125 Squires Beach Road
Pickering, Ontario L1W 3T9
Tel: 905.839.9199 Fax: 905.839.9198
info@intellimeter.on.ca www.intellimeter.on.ca



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