SmartMon Power Meter HS-EXKM

The SmartMon Power Meter is an energy monitor that provides a variety of advanced features, including:

- 3-phase Power Monitoring with three current (0-5A CTs) and voltage inputs (480V, direct connect or PTs)
- Display of Energy and Power Values on Graphical, LCD Backlit Display
- Remote Access to Live Data over Modbus/RTU (RS-232/485)

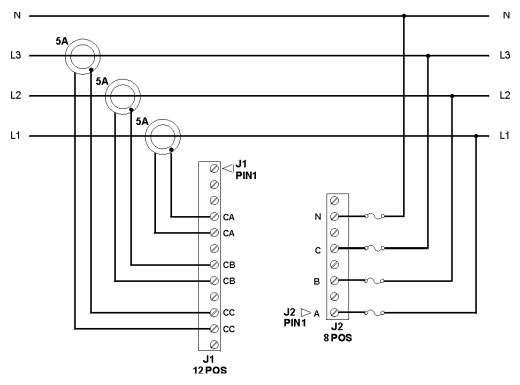
1 SPECIFICATIONS

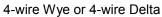
CURRENT INPUTS			VOLTAGE INPUTS		
Conversion	True RMS 78.1K cycles/sec		Conversion	True RMS	
CT Input	5A Secondary		PT Input (or direct)	480V Secondary	
Burden	0.2VA		Burden	2.0Mohm	
Range	1 to 150% of CT Primary		Input Range	40 to 600Vac	
Full Scale	150% of CT Primary		Full Scale	600Vac	
Accuracy*	0.5% of Full Scale		Accuracy*	0.5% full scale	
RELAY OUTPUT (Form C)					
Current	1A max at 30Vdc 0.5A max at 125Vac		Contact Voltage	30Vdc, Max 125Vac, Max	
MEASURED DATA VALUES					
Phase A RMS voltage (Va)			Watts (W)		
Phase B RMS voltage (Vb)			Power Factor (PF)		
Phase C RMS voltage (Vc)			Volt-Amps (VA)		
Phase A RMS current (Ia)			Volt-Amps Reactive (VAR)		
Phase B RMS current (Ib)			Kilowatt Hour (KWhr) Voltage Peak (Vpeak)		
Phase C RMS current (Ic)					
Frequency (Hz)			Current Peak (Ipeak)		
t ANGLO12 20 GUTCH T Car (ipcar)					

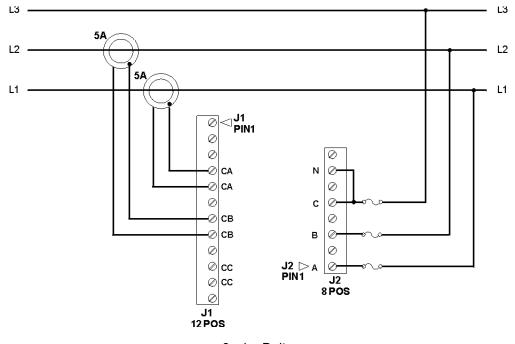
* ANSI C12.20 Class 0.5

GENERAL SPECIFICATIONS				
Required Power (Steady State)	150mA @ 24 VDC			
Required Power (Inrush)	30A for 1 ms @ 24 VDC (DC switched)			
Primary Power Range	10-30VDC			
Clock Accuracy	+/-7 minutes/month			
Operating Temperature	0 to +50C			
Relative Humidity	5 to 95%, Non-condensing			
CONNECTIVITY				
Serial Ports	RS-232/RS-485 Modbus Slave (MJ2)			
CAN Port	Horner CsCAN Peer-to-Peer			

2 WIRING

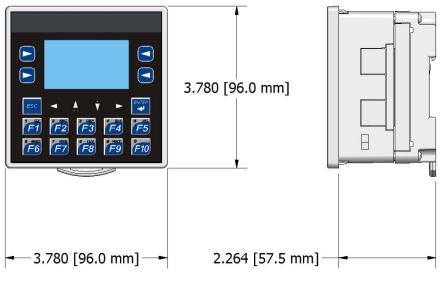




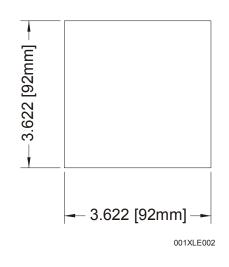


3-wire Delta

DIMENSIONS, CUTOUT, AND INSTALLATION 3



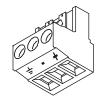
001XLE003





CsCAN Connector

(No Power Required)



DC Power Connector (10-30Vdc)

4 INSTALLATION / SAFETY

Warning: Remove power from the SmartMon Monitor, CAN port, and any peripheral equipment connected to this local system before adding or replacing this or any module.

Use the following wire type or equivalent:

- Belden 8917
- 16 AWG or larger

When found on the product, the following symbols specify:



Warning: Consult user documentation.



Warning: Electrical Shock Hazard.

WARNING: To avoid the risk of electric shock or burns, always connect the safety (or earth) ground before making any other connections.

WARNING: To reduce the risk of fire, electrical shock, or physical injury it is strongly recommended to fuse the voltage measurement inputs. Be sure to locate fuses as close to the source as possible.

WARNING: Replace fuse with the same type and rating to provide protection against risk of fire and shock hazards.

WARNING: In the event of repeated failure, do <u>not</u> replace the fuse again as a repeated failure indicates a defective condition that will <u>not</u> clear by replacing the fuse.

WARNING: Only qualified electrical personnel familiar with the construction and operation of this equipment and the hazards involved should install, adjust, operate, or service this equipment. Read and understand this manual and other applicable manuals in their entirety before proceeding. Failure to observe this precaution could result in severe bodily injury or loss of life.

5 TECHNICAL SUPPORT

For assistance and manual up-dates, contact Technical Support at the following locations:

North America:+	Europe:
(317) 916-4274	(+) 353-21-4321-266
www.heapg.com	www.horner-apg.com