



PM 3000

TOUCH SCREEN HMI WITH CONTROL FUNCTIONS

- 160 x 128 pixel 70mm x 50mm Graphic Touch screen display
- 4 Programmable Function Keys
- Built-in analogue & digital I/O
- 2 serial ports plus CAN port
- Micro SD Memory Card
- Add-on modules include Ethernet comms, GSM modem and extra I/O
- Very High Spec, Low Cost



Description

The PM3000 is a compact HMI with graphic touch screen and built-in control capability.

Suitable for both indoor and outdoor applications the unit is easily programmed using an IEC 61131-3 compatible PC software package and can be used in a wide range of small to medium control applications.

The unit has 4 fully programmable function keys which can be used to change the parameters displayed or as start/stop or control buttons. Other features included in the standard module are 4 different combinations of I/O, 2 serial ports, a CAN bus port and an up to 2GB microSD memory card which can be used for data logging, recipes or web pages.

An Ethernet option is also available as an add-on as is a GSM/GPRS or PTSN modem,

Inputs

DC/AC Current & Voltage

0-20mA, 4-20mA, into 100Ω
0-10V into 500 kΩ

Nominal Resolution	10 bits
Max over current	35 mA
Maximum Error	0.25% *
Filtering	160 Hz noise filter 1-128 scan running average filter

* Note: At 25 deg C digital filter set to 3

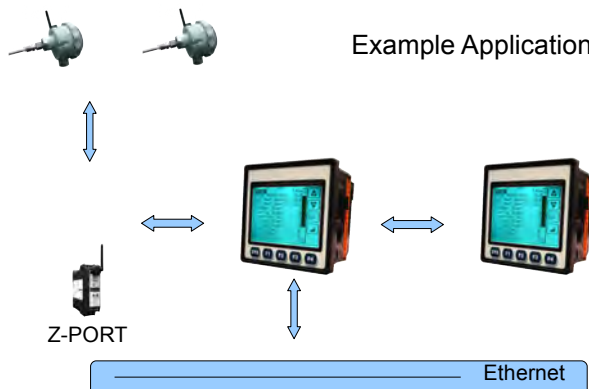
Digital DC Inputs

Inputs per module	12 including 4 HSC inputs
Input voltage range	12 or 24Vdc
Input impedance	10kΩ
Max upper threshold	8 Vdc
Min lower threshold	3 Vdc
Max Switching rate	10kHz totaliser/ pulse 5 kHz frequency

Digital Relay Outputs

Outputs per module	6 relay
Relay Rating	3A at 250 Vac resistive
Maximum total output I	5A continuous
Contact Isolation	1 kV
Life Expectancy no load	5 million switches
Max Switching rate	300 cpm at no load 20 cpm at full load

Example Application



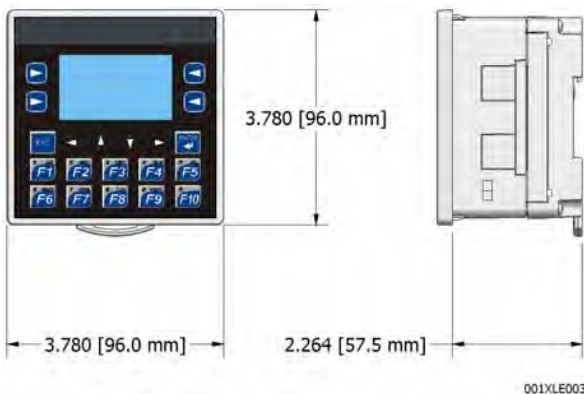
A ZigBee wireless network connects to a PM3000 via RS232.

The PM3000s then display the data and make it available to an Ethernet network





Parameter	Min	Typ	Max	Comments
Supply Voltage	10	24V	30Vdc	
Supply Current (mA)			130 mA	For 24 V dc supply (30A for 1mS on start up)
Operating Ambient	-10		+60	Deg C
Relative Humidity	5%		95%	Non condensing
Clock Accuracy			+/- 1 minute	Per month at 20 degC
Serial Comms				RS232/485*
* Ethernet is an add-on option				



Installation Data	
Mounting	92mm x 92mm cut-out or TS35 DIN rail
Orientation	Any
Connections	Screw Clamp with pressure plate
Torque	0.5 to 0.78 Nm
Conductor size	0.5-4.0mm
Enclosure size	96 x 96 x 58 mm
Weight	Approx 340 g

Ordering Information

Model Number	I/O Expansion	Dig In	Dig Out	Analogue in	Analogue out	Temp Input	High Speed Counter	PWM Output	CANbus
PM3000-1	CsCAN/Modbus	12	6	4	No	None	4	No	1 port
PM3000-2	CsCAN/Modbus	12	12	2	No	None	4	2	1 port
PM3000-3	CsCAN/Modbus	24	16	2	No	None	4	2	1 port
PM3000-4	CsCAN/Modbus	12	12	2	2	t/c RTD	4	2	1 port