PM180 Series

6-channel Modbus Temperature Indicator with Data Logging



- RS485 Modbus Master
- Compatible with PyroBus and PyroMini infrared temperature sensors with RS485 Modbus output
- Configure, display and log data and alarms from up to 6 sensors simultaneously or individually
- MicroSD Card stores up to 1 year of data (with 2 GB card)
- Touch screen with backlight
- Scheduled and manual logging start/stop
- Relay alarms with ICP DAS M-7061 (not included)
- Analogue outputs with ICP DAS M-7024 (not included)
- Temperature chart displays data from 2 channels simultaneously
- CE marked and RoHS compliant
- Isolated Modbus slave version available

GENERAL SPECIFICATIONS

2.83" (72 mm) resistive touch TFT, 320 x 240 pixels, backlit Display

Supply Voltage 10 to 30 V DC Maximum Current Draw 100 mA Ambient Temperature Range 0°C to 60°C

Relative Humidity Maximum 95%, non-condensing

Temperature units, date and time, data logging, graph channels, Configurable Parameters (global)

alarm logging

Configurable Parameters (per channel) Signal processing, emissivity setting, reflected energy

compensation, alarms,

Alarm Configuration 12 alarms (2 per sensor) with adjustable level, individually

configurable as HI or LO.

Temperature Units 0.1° Temperature Resolution

Signal Processing Average, peak hold, valley hold, minimum, maximum 120 ms per sensor (720 ms in total for 6 sensors) Display Sample Period

DATA LOGGING

Logging Interval MicroSD Card Variables Logged

File Format

Max. capacity: 32 GB (not included) Internal Clock Battery 1 x BR 1225 3V (not included) Target temperature, sensing head temperature, alarm events .csv (can be imported to Excel) Sample period, number of samples, scheduled start date and time

1 to 86.400 seconds (1 day)

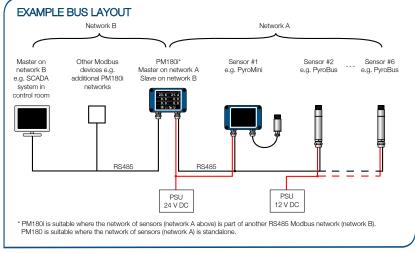
Configurable **Parameters**

MECHANICAL SPECIFICATIONS

Dimensions 98(w) x 64(h) x 36(d) mm excluding

cable glands

Weight 280 g



MODEL NUMBERS

PM180 6-channel Modbus display/logger without isolation PM180i PM180 with 2500 V RMS isolation between master and slave

ACCESSORIES

PM180MA AC adapter MSD 2 GB MicroSD Card

M-7061 12-channel relay output module

M-7024 4-channel voltage or current analogue output module



Intuitive touch screen interface

Display, chart and configure all 6 channels individually or simultaneously. The display for each channel turns red in an alarm condition. Temperature data and alarm events may be logged to a MicroSD Card (not supplied).