Data logger type PMS-110R

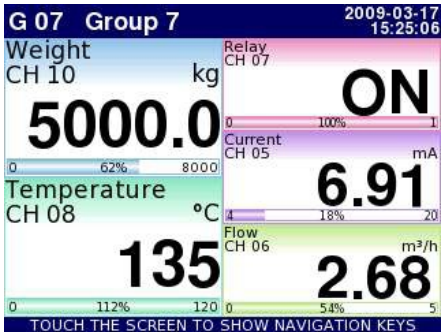
NEW

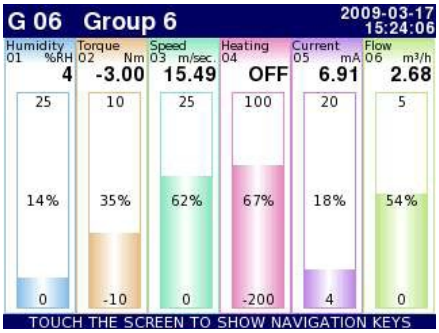
- ✓ **Compact multichannel controller with data logging capabilities**
- ✓ **48 analog / digital inputs max.**
- ✓ **24 thermocouple / 12 RTD inputs max.**
- ✓ **8 current or 16 relay / SSR outputs max.**
- ✓ **USB Host port for flush data storage**
- ✓ **free configuration and recording software**
- ✓ **3.5" TFT, 320 x 240 pixels, touchscreen navigation**

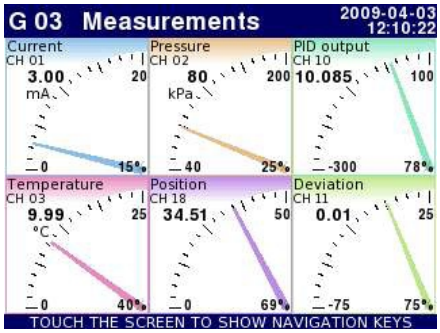
Application and functions

The data logger PMS-110R is a powerful and versatile compactmultichannel-controller with a capability to record data, if the recording function is requested and activated. Thanks to that it is one of the first industrial devices which integrates advanced control functions (PID, ON/OFF, time & profiles etc.) and logging of setpoints, excitations and current state of controlled objects. Based on Linux firmware, is stable and the touch screen makes configuration easy and comfortable and data presentation also readable and attractive. Although the data logger PMS-110R is build in a quite small housing, it can integrate up to 48 inputs, and its construction allows user almost free configuration by choosing up to 3 from 16 available input/output modules. The device can simultanously record all build-in logical channels (60), and is capable to record data with maximum speed 10Hz (ten samples per second, with some limitation of number of recorded channels). 1.5GB of internal data memory is enough for continuous recording of all channels with a speed of 1 sample per second (each channel) for over 50 days (250 000 000 samples in total!). An operator can download stored data using a USB flash disk or via Ethernet.

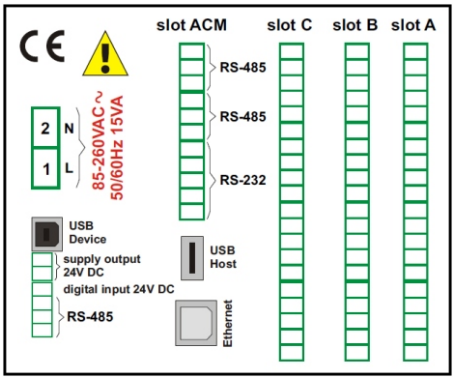
Display configuration option







Examplary pin assignment



Ordering code

PMS-110R/___/___/___/___/___

slot A
P
A
E
G
H
B
C
F
D
I

slot B
P
A
E
G
H
B
C
F
D
I
J
K
O

slot C
P
A
E
G
H
B
C
F
D
I
J
L
M
N
K
O

Options
AA
AB
AC
AD
AE
AF

Power supply
1. 24V AC/DC
2. 85V...260V AC/DC

Specification:
P: empty
A : 4 x voltage input + 4 x current input
E : 8 x voltage input + 8 x current input
G : 16 x voltage input
H : 16 x current input
B : 4 x RTD input
C : 4 x TC input
F : 8 x TC input
D : 8 x digital input
I : 16 x digital input
J : 8 x SPST relay 1A
L : 4 x SPDT relay 5A
M : 8 x SSR output
N : 16 x SSR output
K : 2 x 4-20 mA outputs
O : 4 x 4-20 mA outputs
AD:ACM module (Advanced Communication Module)
includes 1 x RS-485, 1 x RS-485/232,
1 x USB Host, 1 x Ethernet 10 MB
AA: sealing frame Ip65 front, rear USB host
AB: front USB Host, Ip40
AC: 2x USB Host, Ip40
AE: IP65, ACM module (rear USB Host only)
AF: front USB Host, ACM module

Technical data

Power supply: 19V ÷ 50V DC; 16V ÷ 35V AC or 85 ÷ 260V AC/DC
Power consumption: 15 VA typical; 20 VA max.
Display: 3.5" graphic TFT, 16-bit colour, 320 x 240 pixels,
touchscreen navigation
Measuring inputs:
- 48 analogue inputs (0/4-20 mA, 0/1-5V or 0/2-10V) max.
- 48 digital inputs max.
- 24 Thermocouple inputs max.
- 12 RTD inputs max.

Digital input: 1 x 24V DC, optocoupled
Sensor supply: 24 V DC ± 5% (200 mA max. for version with current inputs)
Outputs: - 8 analog (4-20 mA)
- 16 relay (1A/250V) / SSR outputs or 4 relay 5A/250V max.

Remote inputs and outputs available, via RS-485/Modbus RTU
Communication interface:
standard: RS-485 (Modbus RTU), 1 x USB Host, USB Device
enhanced version (incl. ACM module): 2 x RS-485, 1 x RS-485/232,
1 or 2 x USB Host, 1 x USB Device, 1 x Ethernet 10 MB
Protection:
IP 65 (front), available options: additional frame IP 65 for panel cut-out sealing,
transparent door STD-99, see: accessories
version with front USB: a) IP 40, b) IP 54 (when fitted with STD-99 transparent door, see: accessories)
Data memory: internal 1.5 GB, over 50 days (250 000 000 samples)
Working temperature: 0°C to +50°C
Storage temperature: -10°C to +70°C
Case style: panel mounting
Case material: NORYL - GFN2S E1
Case dimensions: 96 x 96 x 100 mm
Panel cut-out dimensions: 90.5 x 90.5 mm
Installation depth: 102 mm min.
Panel thickness: 5 mm max

Optional accessories

- USB/RS-485 converter
- RS-232/RS-485 converter

Transparent door with moulded frame with key, IP 42