

Multichannel controller with data logging capabilities type PMS-110R / PMS-111R

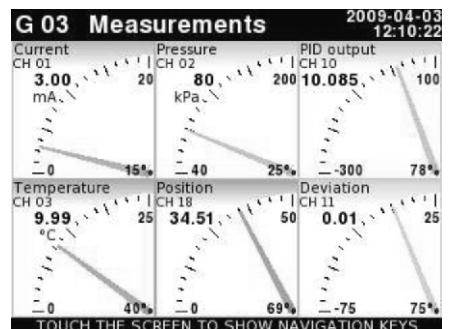
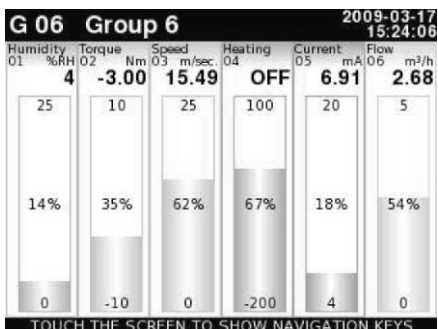
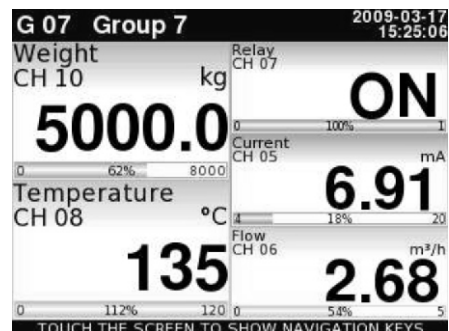
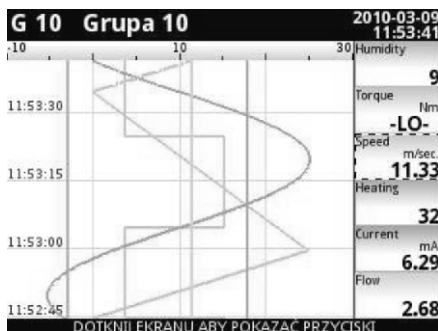


- ✓ compact multichannel controller with data logging capabilities
- ✓ analog / digital / universal inputs
- ✓ thermocouple / RTD inputs
- ✓ counter / flowmeter/ ratemeter inputs
- ✓ current or relay / SSR outputs
- ✓ USB Host port for flush data storage
- ✓ free configuration and recording software
- ✓ 3.5"/5.7 TFT, 320 x 240 pixels, touchscreen navigation

Application and functions

The data logger PMS-11..R is a powerful and versatile compact multichannel-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. The device can simultaneously record all build-in logical channels, 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 flashdisk or via Ethernet.

Display configuration option



Technical data

Power supply: 19V ± 50V DC; 16V ± 35V AC or 85 ± 260V AC/DC

Power consumption: 15 VA typical; 20 VA max.

Communication interface:

standard: RS-485 (Modbus RTU), 1 x USB Host, USB Device
 enhanced version with 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
 enhanced version with ETU module: 1 x RS-485,
 1 or 2 x USB Host, 1 x USB Device, 1 x Ethernet 10 MB

Protection:

IP 65 (front) for version without front USB, available
 with additional sealing frame IP 65 for panel,
 IP 40 (front) for version with front USB
 IP 54 (front) for version with front USB with add. transparent door

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

PMS-110R

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. (J,K, S, T, N, R, B, E)
- 12 RTD inputs max.
- 9 universal inputs (U/I/RTD/TC/mV) max
- 12 counter inputs max
- 12 flowmeter/ratometer inputs

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

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

PMS-111R

Display: 5.7" graphic TFT, 16-bit colour, 320 x 240 pixels,
 touchscreen navigation

Measuring inputs:

- 72 analogue inputs (0/4-20 mA, 0/1-5V or 0/2-10V) max.
- 72 digital inputs max.
- 36 Thermocouple inputs max.(J,K, S, T, N, R, B, E)
- 18 RTD inputs max.
- 15 universal inputs (U/I/RTD/TC/mV) max
- 12 counter inputs max
- 12 flowmeter/ratometer inputs

Digital input: 1 x 24V DC, optocoupled

Sensor supply: 24 V DC ± 5% (200 mA max. for version with current inputs)

Outputs: - 18 analog (4-20 mA) max

- 36 relay (1A/250V), 72 SSR outputs or 18 relay 5A/250V max.

Remote inputs and outputs available, via RS-485/Modbus RTU

Case dimensions: 144 x 144 x 100 mm

Panel cut-out dimensions: 138,5 x138,5 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



Ordering code

PMS-110R
PMS-111R/



Logging capability:

L1: With logging capabilities

L0: Without logging capabilities

Modules:

slot A: choose module

slot B: choose module

slot C: choose module

Power supply:

1. 19..50V DC or 16..35V AC

2. 85V...260V AC/DC

Communication options:

AA: rear USB host

AB: front USB Host

AC: rear and front USB Host

BA: ACM module

BB: ACM module, front USB Host

CA: ETU module

CB: ETU module, front USB Host

Module	Description	PMS-110R			PMS-111R		
		Slot A	Slot B	Slot C	Slot A	Slot B	Slot C
P	empty slot	0	0	0	0	0	0
UI4	4 x voltage input + 4 x current input	0	0	0	0	0	0
UI8	8 x voltage input + 8 x current input	0	0	0	0	0	0
UI12	12 x voltage input + 12 x current input				0	0	0
UI4N8	4 x voltage inputs + 4 x current inputs + 8 x NTC inputs	0	0	0	0	0	0
UI4D8	4 x voltage inputs + 4 x current inputs + 8 x digital inputs	0	0	0	0	0	0
UI8N8	8 x voltage inputs + 8 x current inputs + 8 x NTC inputs				0	0	0
UI8D8	8 x voltage inputs + 8 x current inputs + 8 x digital inputs				0	0	0
U16	16 x voltage input	0	0	0	0	0	0
U24	24 x voltage input				0	0	0
I16	16 x current input	0	0	0	0	0	0
I24	24 x current input				0	0	0
IS6	6 x current input, isolated	0	0	0	0	0	0
RT4	4 x RTD input	0	0	0	0	0	0
RT6	6 x RTD input				0	0	0
TC4	4 x TC input	0	0	0	0	0	0
TC8	8 x TC input	0	0	0	0	0	0
TC12	12 x TC input				0	0	0
D8	8 x digital input	0	0	0	0	0	0
D16	16 x digital input	0	0	0	0	0	0
D24	24 x digital input				0	0	0
R81*	8 x SPST relay 1A output		0	0	0	0	0
R121	12 x SPST relay 1A output				0	0	0
R45*	4 x SPDT relay 5A output			0	0	0	0
R65	6 x SPDT relay 5A output				0	0	0
S8	8 x SSR output				0	0	0
S16	16 x SSR output				0	0	0
S24	24 x SSR output				0	0	0
IO2	2 x 4-20 mA output		0	0	0	0	0
IO4	4 x 4-20 mA output		0	0	0	0	0
IO6	6 x 4-20 mA output				0	0	0
IO8	8 x 4-20 mA output				0	0	0
UN3	3 x universal inputs	0	0	0	0	0	0
UN5	5 x universal inputs				0	0	0
CP2	2 x pulse input (universal counters)	0	0	0	0	0	0
CP4	4 x pulse input (universal counters)	0	0	0	0	0	0
HM2	2 x hourmeters, isolated	0	0	0	0	0	0
HM4	4 x hourmeters, isolated	0	0	0	0	0	0
FT2	2 x pulse input (flowmeters / ratemeters) + 2 x current input	0	0	0	0	0	0
FT4	4 x pulse input (flowmeters / ratemeters) + 4 x current input	0	0	0	0	0	0
FI2	2 x current input (flowmeters) + 2 x current input	0	0	0	0	0	0
FI4	4 x current input (flowmeters) + 4 x current input	0	0	0	0	0	0
CP4	4 x pulse input (universal counters)	0	0	0	0	0	0

* R81 and R45 output modules of PMS-110R must be installed in slot C only.
 If two relay output modules are needed than they must be installed in slots B and C.