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P210

Advanced digital Weighing Indicator • OIML R76 Approved models



GENERAL FEATURES

- Up to 1600 measurements per second
- 16,000,000 internal resolutions
- Up to 100000 scale divisions
- Up to 8x 350 Ω load cells
- Programmable for tension compression testing SYSTEM INTEGRATION with analogue output.
- Ergonomic design with small size
- 13.5 mm LED display
- Multiple units (g, kg, t, lb, klb, N, kN)
- vCal Electronic calibration from PC
- · Linearity correction
- Gravity compensation adjustment
- Programmable via PC
- RS-232C & RS-485 serial interface
- 12 28 VDC supply
- · up to 4 digital inputs, 5/6 Relay contact outputs
- · Output Relays can be controlled by PLC

APPLICATIONS

- · Process and industrial weighing (silos, tanks, hoppers, etc.)
- · Bi-directional force measurement
- Testing laboratories

- RS-232C, RS485
- Ethernet TCP/IP
- Modbus RTU
- Modbus TCP
- Profibus
- Profinet
- EtherNet/IP
- EtherCAT
- CANopen
- DIN rail



...Azure Signature Series!

The PT210 is a smart indicator for industrial weighing process applications offering powerful PLC integration facilities; standard serial ports such as RS-232C, RS-485, up to 4 digital inputs and 5 relay outputs.

The PT210 series, apart from the PT210DIN, is approved by Weights & Measures Authorities for use in Accuracy Class III applications with 10000 scale intervals in accordance with OIML R76.

The PT210 is available in a range of versions to connect by various fieldbus protocols such as Ethernet, Modbus, PROFIBUS, PROFINET, CANopen and also a version with analogue output. There is one DIN rail mount version with Analogue and ModBus RTU.

Powerful calibration options including vCal, Electronic calibration without test weights supporting fast easy setup and service. The PT210 features adaptive filtering for fast settling, high display resolution and a speed of up to 1600 conversions per second.

It's small size aluminium body is perfect for panel installations, providing a big display and requiring little space on control panels. The instrument has a stainless steel front for use in harsh environments.





Accupoint weigh module

Model Selection

Feature	PT210MB	PT210AN	PT210EN	PT210PB	PT210PN	PT210EI	PT210EC	PT210C0	PT210DIN
RS-232C	1 port	1 port	1 port	1 port	1 port	1 port	1 port	1 port	1 port
RS-485	1 port	1 port	1 port	1 port	1 port	1 port	1 port	1 port	1 port
Isolated Inputs	4	4	4	4	4	4	4	4	4
Outputs (relay)	5	5	5	5	5	5	5	5	6
ModBus	RTU on RS-485	RTU on RS-485	RTU/TCP w. Ethernet	RTU on RS-485					
Analogue Output		4-20, 0-20mA 0-5, 0-10VDC							4-20, 0-20mA 0-5, 0-10VDC
Ethernet			YES						
PROFIBUS (DPV1)				YES					
PROFINET					YES				
EtherNet/IP						YES		.7	
EtherCAT							YES	19	A de la companya de l
CANopen								YES	







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PT210 SPECIFICATIONS

Accuracy OIML R76 Class III 10000 scale intervals
Display 6 digits, 7 segments red LED, 13.5 mm high

Resolution Max. Displayed 999999, internal 16000000, 24 bit Delta Sigma ADC

Conversion Rate Up to 1600 times per second

Units display g, kg, t, lb, klb, N, kN

Display Annunciators Gross, net, motion, centre of zero, units

Keypad (with access lock) 5 key (user assignable Function, G/N, Tare/Clear, Zero, Print)

Linearity error < 0.0015% FSO
Temperature Coefficient < 2 ppm/°C

Excitation 5V, 120mA max. (up to $8x 350\Omega$ or $16x 700\Omega$ load cells, 4 or 6 wire)

Input sensitivity Minimum 0.1 μ V/division (0.4 μ V/d approved);

Input voltage range (configurable) 0mV to +18mV (weighing); -18mV to +18mV (bidirectional force)

Zero adjustment input range -18mV to +18mV

Operating Environment -15°C to +55°C (40°C for DIN); max. 85% RH, non-condensing. IP67 with front panel sealing. Enclosure Stainless steel front panel, aluminium casing, stainless rear. (PT210DIN, polycarbonate)

Dimensions 100mm x 55mm panel, 100mm deep. 1/8DIN cutout. (PT210DIN 108 x 90 x 62)

Power Supply 12-28VDC max., 300mA.

FEATURES

Calibration Span calibration with weights, even without without zero calibration.

vCal for calibration by direct entry of load cell characteristics.

Calibration of span and zero by fieldbus commands.

Digital filter Adaptable filter adjustable in 10 steps

Weighing functions Tare, zeroing, auto zero track, motion detection, auto-zero at power up, peak hold, hold

Other functions Pre-settable label (print ticket) count number, gross or tare indication

INTERFACES (varies with model)

Input/Output Up to 4 programmable inputs (12-28VDC) for zero, tare, clear, hold, peak, print, etc., up to 5 relay

outputs (6 for PT210DIN) 250 VAC or 30 VDC, 1A for weight setpoints or fieldbus control.

Analogue Configurable to 4-20 mA, 0-20 mA (max. 500Ω , 300m), 0-5 VDC or 0-10 VDC RS-232 1200 to 115200 baud, 7E1, 7O1 or 8N1. Continuous output, Command or BSI mode. RS-485 1200 to 115200 baud, 7E1, 7O1 or 8N1. Continuous output, Command or BSI mode.

Modbus RTU 1200 to 115200 baud, programmable, up to 31 units on the RS-485 bus

Modbus TCP (on Ethernet) 10 Mbit/s (half duplex), galvanically isolated

PROFIBUS DP V1. 9.6 kbit/s to 12 Mbit/s automatic baud rate detection

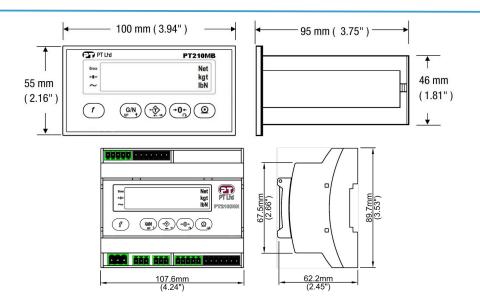
PROFINET

100 Mbit/s (full duplex), galvanically isolated
EtherNet/IP

10 or 100 Mbit/s (full duplex), galvanically isolated
EtherCAT

100 Mbit/s (full duplex), galvanically isolated
CANopen

10 kbit/s to 1 Mbit/s automatic baud rate detection





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