

# PT200MB

## PT200MB ADVANCED WEIGHING INDICATOR



...Azure Signature Series!



The PT200MB is a smart indicator for industrial weighing process applications offering powerful PLC integration facilities; standard serial ports such as RS-232C, RS-485, 2 programmable digital I/O.

The PT200MB is approved by Weights & Measures Authorities for use in Accuracy Class III applications with 10000 scale intervals in accordance with OIML R76.

Powerful calibration options including vCal, Electronic calibration without test weights supporting fast easy setup and service. The PT200 features adaptive filtering for fast settling, high display resolution and a speed of up to 1600 conversions per second.



Accupoint weigh module

It's small size aluminum body is perfect for panel installations, providing large 13.5mm LED digits and requiring little space on control panels.

### Features

- Up to 1600 measurements per second
- 16,000,000 internal resolutions
- Up to 100000 scale divisions
- OIML R76 Approved
- Up to 8x 350  $\Omega$  load cells
- Programmable for tension - compression testing 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
- 2 configurable digital I/O ports.

### Integration

- RS-485
- Modbus RTU

## Model Comparison

Feature	PT200MB	PT210MB	PT210AN	PT210EN	PT210PB	PT210PN	PT210CO
RS-232C	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
Isolated Inputs		4	4	4	4	4	4
Outputs (relay)		5	5	5	5	5	5
Non-isolated transistor programmable I/O	2						
ModBus	RTU on RS-485	RTU on RS-485	RTU on RS-485	RTU on RS-485, TCP on Ethernet	RTU on RS-485	RTU on RS-485	RTU on RS-485
Analogue Output			4 – 20, 0 – 20mA, 0 – 5, 0 – 10VDC				
Ethernet				YES			
ProfiBus (DP V1)					YES		
ProfiNet						YES	
CANopen							YES

## PT200MB Specifications

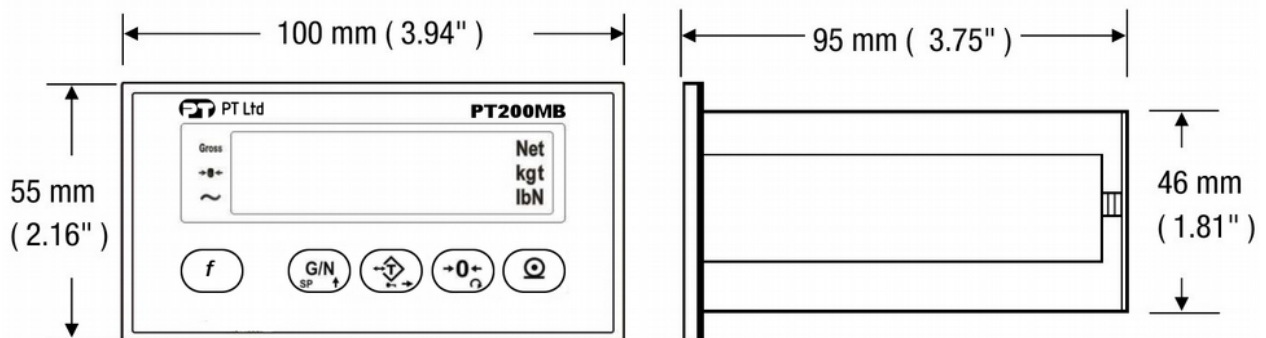
Accuracy	OIML R76 Class III 10000 scale intervals
Display	6 digits, 7 segments red LED, 13.5 mm high
Resolution	Max. Displayed 100000, internal 16000000, 24 bit Delta Sigma ADC
Conversion Rate	Up to 1600 times per second
Units display	g, kg, t, lb, klb, N, kN
Display Annunciators	Gross, net, motion, 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 350Ω or 16x 700Ω load cells, 4 or 6 wire)
Input sensitivity	Minimum 0.1 μV/division
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; max. 85% RH, non-condensing. IP67 with front panel sealing.
Enclosure	Plastic front panel, aluminium casing, stainless rear.
Dimensions	100mm x 55mm panel, 100mm deep. 1/8DIN cutout.
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. Span calibration without emptying scale. 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
Other functions	Pre-settable label (print ticket) count number, gross or tare indication

## Interfaces

Input/Output	2 programmable non-isolated ports for digital input/output
RS-232	1200 to 115200 baud, programmable. Continuous, Printer, BSI
RS-485	1200 to 115200 baud, programmable. Up to 31 units on the bus
Modbus RTU	1200 to 115200 baud, programmable, up to 31 units on the RS-485 bus or RS-232C port



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