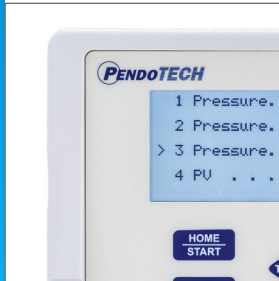


Enhanced Process Monitoring with Pressure Sensor Monitor



Multi-Functionality

Acts as a monitor, alarm, and transmitter unit, providing comprehensive pressure monitoring solutions.



Process Monitoring

Enables setting alarm points for calculated values such as Delta-Pressure or TMP, ensuring critical parameters are maintained within desired ranges.



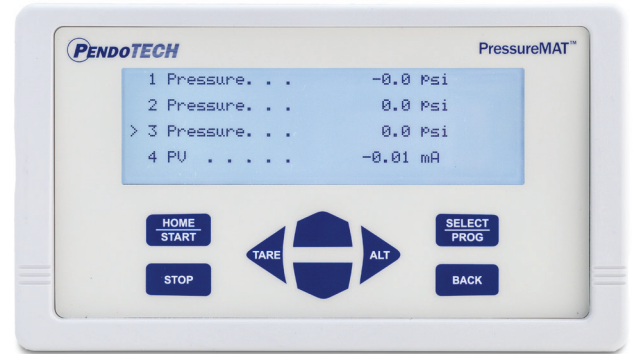
Real-Time Data Transfer and Monitoring

The RS-232 data output allows for data transfer to a PC, facilitating real-time data collection with the PMAT Data Acquisition Software (PMATP-GUI).



Portability

The lightweight and portable design facilitates easy movement within labs or pilot plants, enhancing operational flexibility.



Revamp Your Bioprocessing with Our PressureMAT Sensor Monitor Device for All Critical Steps

The METTLER TOLEDO Pendotech PressureMAT (PMAT) integrates with Pendotech Single-Use Pressure Sensors for biopharmaceutical production, including filtration and chromatography. Its portable, lightweight design facilitates easy movement in labs or pilot plants, making pressure measurement efficient. Available in models with up to four pressure inputs, the PMAT3 and PMAT4 can display Delta-Pressure or trans-membrane pressure and feature alarm set-points for monitoring. With an IP66/NEMA4X front panel, it offers durability against environmental factors, and the High Resolution model provides tenfold accuracy for low-pressure applications. The system complies with industry standards, ensuring safety and regulatory alignment.

Specifications	
Enclosure (WxHxD):	7.86inch x 4.47 inch x 2.25 inch (19.96 x 11.35 x 5.72 cm) Approximate weight: 1.3 lbs (0.65 kg), Material: ABS Plastic IP66 / NEMA 4X front panel; panel and wall mount optional PMAT-S: 4.70inch x 4.70inch x 2.25inch (11.94 x 11.94 x 5.72 cm) Approx weight: 0.86lbs (0.39kg)
Keypad	8 button keypad with LEXAN® overlay
Display	8 line LCD backlit blue, pressure displayed as X.X psi/X.XX bar; PMAT4HR, PMAT2HR & PMAT-SHR X.XXX psi/X.XXX bar
Power Inlet	2.5mm Circular Power Jack (center post positive) or D9 12-24 volts DC, 4 watts (powered by wall supply)
Pressure Sensors Input (s) Models offered with 1-4 inputs	Range of -11.5 to 75.0 psi; (-0.793bar to 5.171 bar) PMAT4HR, PMAT2HR & PMAT-SHR -0.7 to 7.5 psi (-0.0483 bar to 0.510 bar) Configured for Pendotech Single Use Pressure Sensors™, Connector: DA15 (includes 12 ft reusable cables)
Relay Outputs(s) [Up to 4 outputs available as a combination of Relay and Analog outputs]	Specifications for relay used for the alarm output: <ul style="list-style-type: none"> • Normally CLOSED or OPEN via wiring • 28 Volt AC/DC Maximum • 1 amp closure, 2 amps maximum current • 20 millisecc max turn on/off time • Screw terminal connector
Analog Output(s) [4-20 mA] [up to 4 outputs available as a combination of Relay and Analog outputs]	Screw terminal connector 4-20mA Range: -10 to 75 psi (-0.689bar to 5.171 bar); PMAT4HR, PMAT2HR & PMAT-SHR -1 to 3 psi (-0.069bar to 0.207 bar) Accuracy: 0.1% of full scale Sourcing with Maximum Load: 400 ohms Load Impedance: Zero Ohm minimum resistance, 22mA maximum output
RS232 Output	Data output to a PC at a frequency up to approx every 2 seconds
Regulatory Compliances	CE Mark EN61326-1:2021; EN61010-1:2010/A1:2016/C2019; EN/ISO13849-1:2015; EN60204:2018 FCC Part 15 Class B verified FCC Part 68 5TUUSA-23969-DT-E RoHS and REACH Compliant UL Listed

Monitor - Pressure values are displayed on the LCD screen. There is a one-touch zero tare function to set the pressure to atmospheric pressure.

Alarm - Minimum and maximum pressure values are entered via the keypad. If the process pressure falls below the minimum setting or exceeds the maximum setting, the system will trigger an alarm state. This alarm state can be linked to the relay output to help ensure the integrity of the process.

Transmitter - The transmitter operates by delivering a 4-20 milliamp output signal that corresponds to the pressure reading displayed. Additionally, it provides an RS-232 data output to a PC, which is compatible with Pendotech PMAT Data Acquisition Software for seamless data collection.

Ordering Information

Number of Inputs	Number of Outputs	Description*	Order Nr.
1 Pressure Sensor	2 (1 Relay /1 Analog)	Transmitter PMAT-S Bar	30942891
1 Pressure Sensor	2 (1 Relay /1 Analog)	Transmitter PMAT-S Psi	30950801
1 Pressure Sensor	2 (1 Relay /1 Analog)	Transmitter PMAT-SHR Bar	30942892
1 Pressure Sensor	2 (1 Relay /1 Analog)	Transmitter PMAT-SHR Psi	30950803
2 Pressure Sensor	4 (2 Relays / 2 Analogs or 4 Relays)	Transmitter PMAT2 Bar	30942880
2 Pressure Sensor	4 (2 Relays / 2 Analogs or 4 Relays)	Transmitter PMAT2 Psi	30950755
2 Pressure Sensor	4 (2 Relays / 2 Analogs or 4 Relays)	Transmitter PMAT2HR Bar	30942883
2 Pressure Sensor	4 (2 Relays / 2 Analogs or 4 Relays)	Transmitter PMAT2HR Psi	30950758
3 Pressure Sensor	4 (3 Analogs / 1 Relay – for all sensors)	Transmitter PMAT3 Bar	30942885
3 Pressure Sensor	4 (3 Analogs / 1 Relay – for all sensors)	Transmitter PMAT3 Psi	30950760
4 Pressure Sensor	4 (4 Analogs)	Transmitter PMAT4A Bar	30942888
4 Pressure Sensor	4 (4 Analogs)	Transmitter PMAT4A Psi	30950763
4 Pressure Sensor	4 (4 Relays)	Transmitter PMAT4R Bar	30942890
4 Pressure Sensor	4 (4 Relays)	Transmitter PMAT4R Psi	30950764
4 Inputs	4 (4 Analogs) Outputs	Transmitter PMAT4HR Bar	30942889
4 Inputs	4 (4 Analogs) Outputs	Transmitter PMAT4HR Psi	30942624

*PMAT comes pre-configured with either psi or bar measurement units. These units can be changed by the user, contact Pendotech for Technical Instructions.

Software	Order Nr.
Data Acquisition and Trending Software for PressureMAT and CMONT with 2 USB/serial cables to connect to a PC	PMATP-GUI

Stands/Cart	Order Nr.
PressureMAT Benchtop Stand for all models	PMAT-STND
PressureMAT stand to mount on top of Masterflex L/S Pump	PMAT-STND-MFLS
PressureMAT water-tight box (PMAT NOT included) with water-tight cable connections and cart with power strip & filter holder with optional touch-screen PC with Data Acq Software	PMAT-CART4

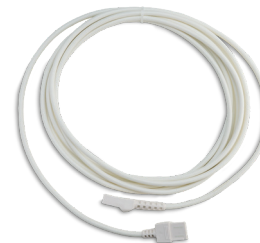
Water Tight Enclosure	Order Nr.
PressureMAT water-tight wall mount box with water-tight cable connections	PMAT-WALL
PressureMAT water-tight bench top stainless steel box with water-tight cable connections for PMAT on left side	PMAT-BNCH-IP-L



PMAT-S



PMAT-STND



PMAT-EXT-12F

Ordering Information - continued

Cables	Order Nr.
RS232 Cable for PressureMAT data output (6 ft / 2 M) for USB input to PC	PDKTP-RS232U
Cable adaptor with D15 for Single Use Pressure Sensor for PMAT (12 ft/4 M)	PMAT-650-298
Cable Adapter with D15 for Single Use Pressure Sensor for PressureMAT (24 ft/7 M)	PMAT-650-298-24F
Pressure Sensor Extension Cable (12 ft/4 M)	PMAT-EXT-12F
RS232 Serial to USB adapter, for PMAT Wall/ Benchtop box, 7 ft	PMAT-WALL-RS232USB
PMAT Enclosure Box replacement power supply, 24V w/ global plug blades	PMAT-PWR-WALL-24VDC
Pump Starts/Stop Cables	Order Nr.
Interface cable for Masterflex LS pump- D9 connector to PMAT to start/stop function, 6 ft (2 M)	PMAT-CB-MF9B
Interface cable for Masterflex LS pump- D15 connector to PMAT to start/stop function, 6 ft (2 M)	PMAT-CB-MF15
Interface cable for Masterflex IP pump- 18 pin connector to PMAT to start/stop function, 6 ft (2 M)	PMAT-CB-MF18
Interface cable for Masterflex LS pump- D25 connector to PMAT to start/stop function, 6 ft (2 M)	PMAT-CB-MF25
Interface cable for Masterflex IP pump- 31 pin connector to PMAT to start/stop function, 6 ft (2 M)	PMAT-CB-MF31
Interface cable for Watson Marlow 120U/DV pump- D15 connector to PMAT to start/stop function, 6 ft (2 M). (Also works on the 101 model)	PMAT-CB-WM15
Interface Cable for Watson Marlow pump D25 connector to PMAT to start/stop function, 6 ft (2 M)	PMAT-CB-WM25
Interface cable for QuattroFlow Q120OHT to PMAT start/stop function, 6 ft (2 M)	PMAT-CB-Q120OHT
Accessories:	Order Nr.
Test cable assembly for PressureMAT accuracy check	PMAT-TCA
Pressure sensor cable dust cover / zero simulator for PressureMAT	PDKT-650-298CVR
DIN rail mounting kit for PMAT-S	PMAT-S-DIN
Installation qualification/operation qualification protocol documentation	PMAT-IQ/OQ
PMAT Panel mount kit - 2 gaskets, 4 mounting brackets, 2 sensor cables, and input connectors for sensors and power	PMAT-PANEL-2-C
PMAT Panel mount kit - 2 gaskets, 4 mounting brackets, 3 sensor cables, and input connectors for sensors and power	PMAT-PANEL-3-C
PMAT Panel mount kit - 2 gaskets, 4 mounting brackets, 4 sensor cables, and input connectors for sensors and power	PMAT-PANEL-4-C
PMAT Panel mount kit - 2 gaskets, 4 mounting brackets, 1 sensor cable, and input connectors for sensor and power	PMAT-PANEL-S-C
Pendotech PressureMAT Power supply with circular barrel connector, 12VDC, 1amp with plugs blades for destination country	PMAT-PWR-12VDC
Pendotech PressureMAT Power supply with circular barrel connector, 24VDC, 0.625 amps with plugs blades for destination country	PMAT-PWR-24VDC
Pinch Valve Pair- 24VDC supply & relay input for each normally closed valve- Small for 1/8 inch ID	PDKT-PVE2-PMAT-S
Pinch Valve Pair- 24VDC supply & relay input for each normally closed valve - Medium for 1/4 inch ID	PDKT-PVE2-PMAT-M
Pinch Valve- 24VDC supply & relay input for normally closed valve - Small for 1/8 inch ID	PDKT-PVE-PMAT-S
Pinch Valve- 24VDC supply & relay input for normally closed valve - Medium for 1/4 inch ID	PDKT-PVE-PMAT-M



PMAT-TCA



PDKT-650-298CVR