

# RPM CONTROLLER/MONITOR

Model : PDT-2250

ISO-9001, CE, IEC1010



PX-01  
(optional)



PI-06  
(optional)



**Lutron**

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*The Art of Measurement*

# RPM CONTROLLER/MONITOR

Model : PDT-2250

## FEATURES

* Professional Tachometer ( RPM, m/min., ft/min. ) monitor and controller.
* Build in control relay and the alarm relay.
* Alarm Relay will make action when the reading value reach to high/low alarm value.
* Control Relay will make action when the reading value reach to control value.
* Hysteresis value setting for control and alarm function.
* Can set input pulse no. of each round.
* Can set the roller's diameter for the surface speed ( m/min., ft/min. ) function.
* Can cooperate the optional proximity sensor or photo sensor.
* Large red LED display, high brightness and easy to read.
* RS232 computer interface.
* Microprocessor circuit ensures high accuracy and provides special functions and features.
* Standard 96 X 48 mm DIN case.
* Optional data acquisition software.
* Optional GSM controller.

## GENERAL SPECIFICATIONS

Display	4 digits red LED, digit size : 14 mm.	
Unit	RPM	RPM
	Surface speed	m/min ( meter per min. ) ft/min ( feet per min. )
Circuit	Custom chip of microprocessor LSI circuit.	
Sampling Time	Approx. 1 second. * Input : one pulse per round, $\geq 60$ RPM	
Relay Output	Number	2 relays
	Function	Relay 1 : Control relay.
		Relay 2 : High/Low alarm relay.
Max load	1 ACA/250 ACV 1 DCA/24 DCV	
Setting Value	Control value setting. Alarm high limit value setting. Alarm low limit value setting. Pulse no. of each round. Roller diameter value setting. Hysteresis value setting. * Setting for RPM, m/min., ft/min.	
Input Signal	Pulse	
Time base	Quartz crystal	
External Power Supply	DC 12 V, 50 mA max.	
Data Output	RS 232 PC serial interface.	
Operating Temperature	0 to 50 °C.	
Operating Humidity	Less than 80% R.H.	
Power Supply	90 to 260 ACV, 50/60 Hz.	
Weight	384 g/ 0.84 LB.	

Power Consumption	Approx. 4.7 VA/AC 110V. Approx. 5.3 VA/AC 220V.
Dimension	DIN size : 96 x 48 mm. Depth : 110 mm.
Accessories Included	Instruction manual..... 1 PC Case holder with screw..... 2 PCs
Optional Accessories	* Proximity sensor, PX-01. * Photo sensor, PI-06. * Data Acquisition software, SW-U801-WIN. * RS232 cable, UPCB-02. * GSM controller, GSM-889. * Interface cable ( cable between meter to GSM-889 ), GMCB-89.

## ELECTRICAL SPECIFICATIONS (23±5 °C)

Range	<i>Photo Tachometer :</i> 10 to 99,999 RPM		
	<i>Surface Speed ( m/min. ) :</i> 0.05 to 9,999 m/min.		
	<i>Surface Speed ( ft/min. ) :</i> 0.2 to 32,805 ft/min.		
Accuracy	± ( 0.1 % + 1 digit ) .		
Resolution	RPM	0.1 RPM	< 1,000 RPM
		1 RPM	1,000 to 9,999 RPM
		10 RPM	10,000 to 99,999 RPM
	m/min.	0.01 m/min.	< 100 m/min.
		0.1 m/min.	100 to 999 m/min.
		1 m/min.	1,000 to 9,999 m/min.
	ft/min.	0.1 ft/min.	< 1000 ft/min.
		1 ft/min.	1,000 to 9,999 ft/min.
		10 ft/min.	10,000 to 32,805 ft/min.

## OPTIONAL PROXIMITY SENSOR Model : PX-01

Application	* Sensor for PDT-2250 Panel RPM Controller, Monitor
	* Sensor for DT-2240D Panel Tachometer
	* Position Detector.
Output method	PNP, NO(normal open)
Sensing direction	Vertical.
Sensing distance	4 mm.
Operating voltage	10-30 VDC.
Standard Sensing object	Iron 18 x 18 x 1 mm.
Current consumption	8 mA, no load.
Response frequency	600 Hz.
Output current	250 mA max.
Leakage current	1.1 mA.
Residual voltage	0.9 VDC.
Operating Temperature	-20 to 70 °C
Operating Humidity	35 to 95% RH.
Wire Dimension	4.7 mm Dia. x 2 m x 3 cores.
Application	* Sensor for PDT-2250 DT-2240D.
	* Position Detector.