

Wireless Trigger Module

WTM-100

Code: 600-10091

Key features

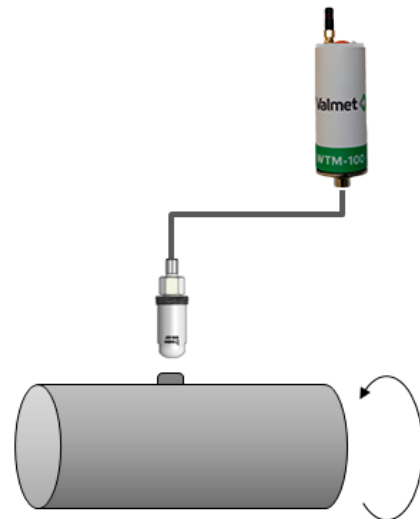
- Interface for rotation speed measurement
- Battery operated
- Protection class IP66
- WLAN communication

WTM-100 is a wireless measurement unit for transferring rotational speed information used in machine condition monitoring applications. The unit measures a pulse signal from a triggering sensor and transfers the data to host system through standard WLAN interface. The unit is connected with an extension cable to speed trigger sensor like magnetic, optical and inductive sensors.

Measured pulse signal can be used for determining machine speed, calculating characteristic fault frequencies based on rotational frequency and performing synchronized STA measurements (Synchronized Time Averaging).

WTM-100 is suitable for the monitoring of most machinery in different speed ranges in e.g. the following industries:

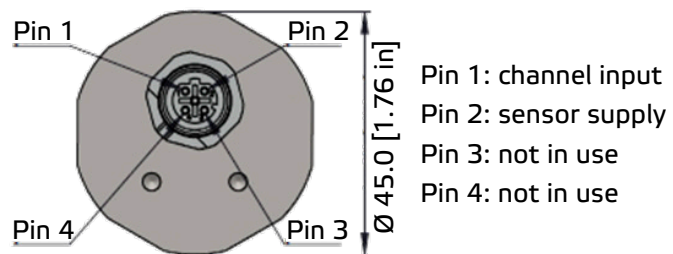
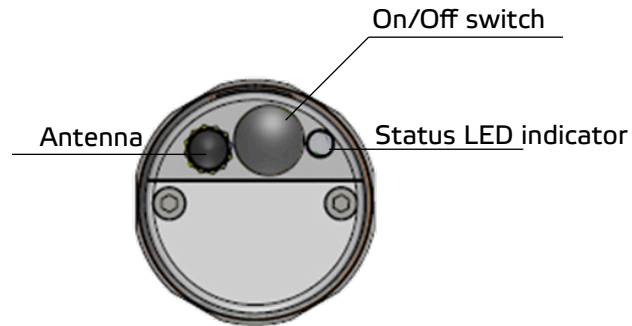
- Pulp and Paper
- Mining and mineral industry
- Power generation
- Steel industry



WTM-100 sensor specifications

Trigger sensor interface	Sensor power output voltage	20 V / current limit 20 mA
	Input voltage range	0...20 V
Signal sampling	Sampling rate, trigger sensor	max. 80 000 Hz
	Signal length	max. 1 000 000 samples
	Internal buffer memory	512 MB
	AD conversion accuracy, trigger sensor	24 bits
Radio communication	Communication protocol	IEEE 802.11 b/g/n
	Communication rate	max. 72.2 Mbps
	Security	WiFi security (802.11i) WEP, WPA/WPA2 (AES-CCMP and TKIP)
Electrical	Internal battery	rechargeable 3.6 VDC, 3100 mAh (Lithium-ion)
	Power consumption at continuous use	1 W
Environmental	Temperature range	-20...+60 °C
	Protection class	IP66
Physical	Weight	350 g (including battery)
	Case material	AISI 316 and PET-C
	Connector	Phoenix Contact M12 SPEEDCON (4-pin)

WTM-100 sensor dimensions



Accessories (optional)

Connection cable for Magnetic trigger, length 2 m

Code: 600-10139

Connection cable for Optical trigger, length 2 m

Code: 600-10140

Connection cable with BNC connector, length 2 m

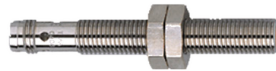
Code: 600-10132

Optical (laser) trigger sensor



Code: 600-10137

Magnetic trigger sensor



Code: 600-10138

Spare parts

Rechargeable battery

Code: 600-10071

Battery charger

Code: 600-10072

Antenna

Code: D202364

Seals for battery pack, 5 pcs

Code: 600-10157

2 mm Allen tool for battery mounting

Code: 600-10143