

PREMAS® 4.0 for Belt Bucket Elevator - Technical Datasheet

PREMAS® 4.0 enables the early detection of wear and aging of important machine components at your conveying equipment. Please find below further technical details of the hardware of this Predictive Maintenance Solution.

Field Sensor: Temperature	
Measurement Range	-50°C to 150°C
Connection cable	4-wire connection to IoT Box
Signal type	4 to 20 mA
Location	1 at Boot, 1 at Head, mounted at machine wall
Transmitter required	No
External power supply required	No (24 VDC supply from IoT Box)
Protection class IP	IP67

Field Sensor: Elongation	
Measurement Range	0 to 450 mm
Connection cable	4-wire connection to IoT Box
Signal type	4 to 20 mA
Location	1 at Boot (mounted at parallel tension device)
Transmitter required	No
External power supply required	No (24 VDC supply from IoT Box)
Protection class IP	IP67

Input Signals from Plant System	
Motor current	Analogue signal: 4 to 20 mA
Level Switch	Digital signal (on/off): 0 to 24 VDC
Speed Switch	Digital signal (on/off): 0 to 24 VDC
Drift Warning	Digital signal (on/off): 0 to 24 VDC
Input Impedance	27.4 ohms

IoT-Box	
Material	Metal enclosure
Operation conditions	Ambient temperature from -30°C to 70°C
Size	30 x 40 x 21 cm (11,8 x 15,75 x 8,3 in)
Miniature circuit breaker	Compact, single phase, rated current 6A
Input types	8x analog, 5x digital
Output types	2x digital (warning/alarm to external)
Power supply	110 to 230 VAC (uninterrupted power supply – UPS)
Power requirement	25 W
Location	Nearby bucket elevator boot
Mobile communication	4G (LTE), UMTS/HSPA+; EDGE; GPRS; GSM
SIM Card	Global SIM card with data package included
Protection class IP	dust proof (Nema 4/IP65)

Want to know more? Contact us.

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