Microcontroller for Screw Conveyors **MC 755B Profibus DP**

General information

PWS40320261113

The best continuous weighing system for conveyor belts, MC 755B Profibus DP allows you to precisely control the tons produced and record production in real time. Two different types of operation are available: **flow rate reading and flow rate regulation**. In both cases, the material passes over a weighed portion of the belt, whose dimensions, in addition to the speed of the belt itself, read by an encoder, allow the microprocessor to calculate the hourly flow rate and the total of the material passed. In the case of flow rate regulation, the terminal with optional analog output also regulates the belt speed and keeps the flow rate constant at the programmed value.



Technical Manual: mc-755B_technical_manual.pdf

All indicated data may be changed without notice.
All the measures indicated are expressed in millimeters (mm).

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Industrial Electronic Weighing Systems since 1963

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Technical specifications

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Load cells input:	Cell power supply 5 Vdc 240 mA (max 16 cells of 350 Ohm), short-circuit protected
A/D Converter:	Integrated 24-bit A/D converter up to 1,000 conversions/sec
Measuring range:	- 7.8 mV/V ÷ + 7.8 mV/V
Input sensitivity:	0.02 µV min
Linearity:	< 0.01% FS
Gain drift:	< 0.001% FS / °C
Internal Resolution:	> 16,000,000 points
Divisions value (adjustable):	0.0001 ÷ 50
Encoder input:	1 x incremental 2-phase (up/down, A/B), power supply 24Vdc (100mA max), freq. 2KHz max
Logic output:	6 x digital optoisolated max 30 Vdc, 0.1 A ea. expandable with Pavone EIOS 84 module
Logic inputs:	6 x optoisolated digital inputs (7.5 ÷ 24 Vdc PNP) expandable with Pavone EIOS 84 module
Analog output:	2 x isolated analog outputs (0-10V / 4-20mA) second output optional
Analog inputs:	1 x optional analog input (0-10V / 4-20mA)
Recommended input:	10 ÷ 30 Vdc 10W max isolated
Display:	7" backlit color TFT LCD, 800 x 480 pixels, 152 x 92 mm viewing area
Keyboard:	Resistive touch panel integrated in the LCD, with acoustic feedback (buzzer)
Container:	aluminum enclosure, external dimensions 202x133x44, drilling template 190x117 (mm)
Electrical connection:	Removable screw terminals with 5.08mm pitch and RJ45, USB A and B communication ports
Communication interfaces:	2 x Rs232, 2 x Rs485, 1 x Ethernet (LAN), 1 x USB (pendrive), 1 x USB (device)
Optional interfaces:	on board = Profinet, Ethernet-IP, Ethercat / with external module = CANopen, Profibus
Microcontroller:	ARM Cortex M7 @ 280Mhz with 1MB RAM and 2MB integrated FLASH
Data storage:	ROM up to 4MB, DATA FLASH up to 4MB, optional 2MB alibi memory
Temperature range:	-10*C ÷ +40°C
Storage temperature:	-20°C ÷ +70°C
Isolation:	Class I
Degree of protection:	IP65

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