

General information

PWS40320260513

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).

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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