

## General information

PWS39520251215

The top-tier continuous loss-in-weight weighing system MC 755L Ethercat is designed to precisely monitor weight over time and calculate material flow rate across a wide range of industrial applications. This loss-in-weight weighing system is the ideal solution for optimizing production processes and ensuring maximum efficiency. The MC 755L Ethercat constantly monitors material weight, enabling accurate flow rate control, and automatically calculates the material flow rate based on weight loss over time. The MC 755L Ethercat is fully customizable to meet the specific needs of each application and **can function as both a loss-in-weight flow rate controller and a belt flow rate controller**, offering maximum flexibility. This continuous dosing system integrates weight and speed variables to precisely measure and regulate flow rate. The front panel mounting facilitates integration into any industrial weighing system. The intuitive user interface with a 7-inch color touch screen makes configuration and operation simple and straightforward. The front panel mounting facilitates integration into any industrial weighing system.



Technical Manual: [mc-755L\\_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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|                                      |  |
|--------------------------------------|--|
| <b>Load cells input:</b>             | Cell power supply 5 Vdc 240 mA (max 16 cells of 350 Ohm), short-circuit protected        |
| <b>A/D Converter:</b>                | Integrated 24-bit up to 1,000 conversions/sec  |
| <b>Measuring range:</b>              | - 7.8 mV/V ÷ + 7.8 mV/V  |
| <b>Input sensitivity:</b>            | 0.02 µV min  |
| <b>Linearity:</b>                    | < 0.01% FS   |
| <b>Gain drift:</b>                   | < 0.001% FS / °C   |
| <b>Internal Resolution:</b>          | > 16,000,000 points  |
| <b>Divisions value (adjustable):</b> | 0.0001 ÷ 50  |
| <b>Encoder input:</b>                | 1 x incremental 2-phase (up/down, A/B), power supply 24Vdc (100mA max), freq. 2KHz max   |
| <b>Logic output:</b>                 | 6 x digital optoisolated max 30 Vdc, 0.1 A ea. expandable with Pavone EIOS 84 module     |
| <b>Logic inputs:</b>                 | 6 x optoisolated digital inputs (7.5 ÷ 24 Vdc PNP) expandable with Pavone EIOS 84 module |
| <b>Analog output:</b>                | 2 x isolated analog outputs (0-10V / 4-20mA) second output optional                      |
| <b>Analog inputs:</b>                | 1 x optional analog input (0-10V / 4-20mA)   |
| <b>Recommended input:</b>            | 10 ÷ 30 Vdc 10W max isolated   |
| <b>Display:</b>                      | 7" backlit color TFT LCD, 800 x 480 pixels, 152 x 92 mm viewing area                     |
| <b>Keyboard:</b>                     | Resistive touch panel integrated in the LCD, with acoustic feedback (buzzer)             |
| <b>Container:</b>                    | aluminum enclosure, external dimensions 202x133x44, drilling template 190x117 (mm)       |
| <b>Electrical connection:</b>        | Removable screw terminals with 5.08mm pitch and RJ45, USB A and B communication ports    |
| <b>Communication interfaces:</b>     | 2 x Rs232, 2 x Rs485, 1 x Ethernet (LAN), 1 x USB (pendrive), 1 x USB (device)           |
| <b>Optional interfaces:</b>          | on board = Profinet, Ethernet-IP, Ethercat / with external module = CANopen, Profibus    |
| <b>Microcontroller:</b>              | ARM Cortex M7 @ 280Mhz with 1MB RAM and 2MB integrated FLASH                             |
| <b>Data storage:</b>                 | ROM up to 4MB, DATA FLASH up to 4MB, optional 2MB alibi memory                           |
| <b>Temperature range:</b>            | -10°C ÷ +40°C  |
| <b>Storage temperature:</b>          | -20°C ÷ +70°C  |
| <b>Isolation:</b>                    | Class I  |
| <b>Degree of protection:</b>         | IP65   |

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