# COBRA 465

## FLOW REGULATOR FOR CONTINUOUS WEIGHING

STAD
Automatic weighing systems

**Standard Features**

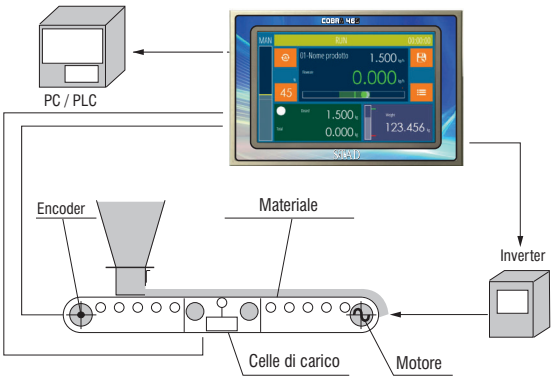
IP65 · 2 x RS485 · 2 x RS232 · 2 x ANALOG OUTPUT · 1x ANALOG OUTPUT · USB Device · USB Host · Ethernet LAN

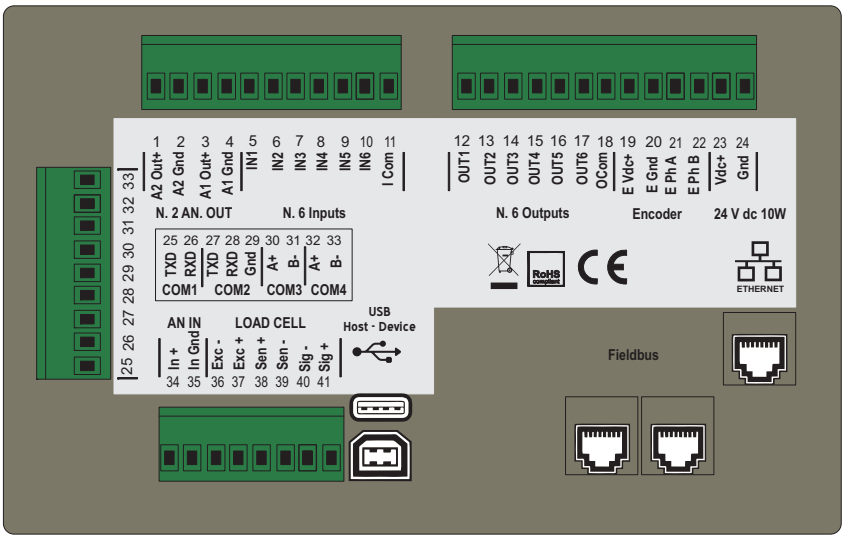
**Optional**

FieldBus

**Lingue menu selezionabili**

Instrument in case for panel front mounting.
7" TFT LCD display with backlighting 800 x 480 pixels.
Visual area dim. 152 x 92 mm. Front protection degree IP65.
The COBRA 465, in addition to integrating the weight and speed variables, thereby generating the instantaneous hourly flow rate and the totalized weight, also performs the flow self-regulator function.




The Company reserves the right to make changes to the technical data, drawings and images without notice.

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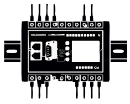
## COBRA 465 COMMUNICATION CAPABILITIES

COM 1 / COM2 [RS232] COM 3 / COM4 [RS485]

PC


PLC

Master/Slave

I/O Module

Printer

Display

## PROTOCOLS (standard / opzional)

**Di serie**

Modbus RTU · Ethernet TCP/IP · USB device · USB Host

**Fieldbus Opzionale**

PROFIBUS · PROFINET · EtherCAT Technology Group · EtherNet/IP

## MAIN FUNCTIONS OF COBRA 465

Maintaining the Set Point flow rate by PI regulation of the analog output, with alarm output for flow out of tolerance;
Continuous transmission of the instantaneous flow rate detected by means of an analog output proportional to the same.
Possibility of setting, for batch dosing, the preset, set and flight values with pulse outputs when the values are reached.
Possibility of setting the SET POINT via analog input. Transmission via no. 2 independent analog outputs of the regulation value and the instantaneous flow rate.
Memorization by points of the dosing device work curve, in case of use with NON-LINEAR machines (e.g. electromagnetic extractor).
Calculation of the totalization of the weight of the dosed material with transmission of the same via pulse output and possibility of piloting a 24-column printer in RS232.
Programming of up to 15 different work set points, settable via BCD inputs.
Freezing of the analog output value from the logic input, in order to propose it again at the restart, avoiding the initial oscillation of the system (can be performed for all 15 set points).
Possibility of displaying the I/O status, the current weight, the instantaneous speed, the encoder pulses and the set correction factor during operation.
Zero calibration procedures with moving belt and calibration with material with consequent creation of the correction factor.
Possibility of connection with PC/PLC via ModBus-RTU, Profibus, Profinet IO, Ethercat and Ethernet TCP/IP or Ethernet IP communication protocols (see above)
USB host interface for firmware update, datalog saving, Import/Export and Setup via pen drive.

### TECHNICAL FEATURES

| | |
|---|---|
| Feeding and power | 10...30 Vdc 10W max. isolated |
| CPU | ARM Cortex M7 @ 280 Mhz con 1 MB RAM e 2MB Flash |
| Operating temperature and humidity | -10 ÷ +40°C 85% |
| Serial ports | 2 x RS232 / 2 x RS485 / Ethernet (LAN) / USB Host / USB Device / FieldBus |
| Enclosure dimensions | 202 x 133 x 46 mm |
| IP | IP65 (front) |

| | | | |
|---|---|---|---|
| Nr. of load cells and feeding | max 16 (350 Ω) - 5Vdc / 240mA | Logical input | nr.6 |
| A/D converter | 24bit | Electrical data for each input | 7.5...24Vdc PNP |
| Internal divisions | > 16.000.000 | Analogue outputs (x 2) | 16bit (V e mA) |
| Measuring range | -7.8 mV/V ... 7.8 mV/V | Analogue input | 24bit (V e mA) |
| Sensibility / Linerarity | 0.02 µV / < 0.01% FS | Alimentazione encoder | 24Vdc |
| Logical outputs | nr.6 | Encoder | bi-phase PP max 2KHz |
| Electrical data for each output | max 30Vdc - 100mA | Drilling dimensions | 187x117mm |

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