



IT Blackbox / IT JunctionBox with Scale Connection and Data Interface, for Industrial Use

Construction

Compact stainless steel housing protected to IP65 / IP67 for wall-mount installation. Suitable for harsh environments, including outdoor area and altitudes of up to 5,000 m. All cable connections through sealed cable glands.

Weighing electronics

IT1 Blackbox:

Connection to scales with analog strain gauge load cells, entry impedance 43 Ohm-3.3 kOhm (e. g. suitable for 8 x 350 Ohm load cells), or zener barriers, entry impedance 87.5 Ohm-3.3 kOhm (e. g. suitable for 4 x 350 Ohm load cells), W&M approved resolution of up to 10,000 d. Internal resolution 524,000 d, update rate 50–800/s, smallest load cell signal 0.33 µV/e. Options: Connection of scale platforms with digital force transducers, external scale interface with ADCBox via RS485, max. cable length: 500 m.

IT1 JunctionBox:

Connection to scales with max. 4 analog strain gauge load cells, incl. shift adjust board AJC for the adjustment via rotary potentiometers, W&M approved resolution of up to 10,000 d. Internal resolution 524,000 d, update rate 50–800/s, smallest load cell signal 0.33 µV/e. Calibration as single or multiple range scale with 1, 2 or 3 ranges or as multi-interval scale. Calibration with test weights or through entry of rated output of load cell(s), option for the linearization of the load curve. Calibration with PC software IT CONFIGURATOR (SIM-NET module required).

Weight display

Via Ethernet interface, W&M approval as NAWI only permissible if used in combination with a separate SysTec weighing terminal or with the PC software PC ScaleView.

Electrical connection

110-240 V AC, 50-60 Hz or 12-24 V DC via integrated power supply unit, or 12–24 V DC for power supply via external battery.

Operating temperature

-10 °C (+14 °F) to +40 °C (+104 °F), 95 % relative humidity, non-condensing.

Directives: 2014/31/EU, 2014/30/EU, 2014/35/EU

Standards: EN 45501, OIML R 76-1, EN 61000-6-2, EN 61000-6-4, NAMUR NE21, EN 62368-1, WELMEC 8.8



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Subject to change without notice

One socket for serial or Ethernet interface and one socket for digital I/Os or analog output:

PC interface, selectable Ethernet, RS232 or RS485-4-Draht, configurable as 'data transmission after each weighing cycle' or 'in request mode'.

Printer interface, selectable USB, Ethernet, RS232 or RS485, for the connection of a form or ticket printer, printout configurable via display and keyboard.

Interface for remote display, selectable RS232, RS485 or Ethernet, several protocols configurable.

2 digital inputs and 2 digital outputs

Optoisolated, 24 V DC, outputs for setpoint monitoring or simple filling applications, inputs for start of weighing and taring or start/stop of filling.

Additional digital output

Optoisolated, 24 V DC, for +/- check or setpoint monitoring.

Analog output

0-20 mA, 4-20 mA, 0-10 V or 2-10 V, 15 bit, 32,000 divisions, for analog output of weight.

Further options

Internal W&M approved data archive To record the latest 1.000.000 weighing results.

PC ScaleView

PC software for the display of weighing data and scale status information.

PC COM+ / PC ARCHIVE

PC software for W&M approved recording of weighing data on a PC hard disk, recording of several years on a hard disk possible.

PC ReadIT

PC software for the reception of weighing data and storage in an ASCII file or a database.

IT CONFIGURATOR

PC software for calibration, backup, configuration of user prompts, and editing of print formats (SIM-NET module required).

Remote display

W&M approved IT1 remote display, selectable RS232, RS485 or Ethernet interface.

Remote diagnostics

Via Ethernet/Internet connection with integrated web server.

Construction:

