

▶ IT 3

- Legal-for-trade weighing terminal
- Universal use – also in harsh industrial environments (IP 69K)
- Large, luminous colour display for display of net-, tare- and gross-weight
- Easy to use via sealed membrane keyboard
- Fieldbus interfaces
- Alibi memory
- Desk/ wall, panel-mount or blackbox version



DESCRIPTION:

The IT 3 is a high precision, universal applicable measurement amplifier for industrial and legal-for-trade applications. It has a range of standard programs that allows the use as legal-for-trade weighing module (desk-top or floor scale) or for simple filling controller, etc.

The IT 3 has a modular design and can be configured according to customer requirements. Due to its robust stainless steel housing, it is suitable for difficult environmental conditions and locations.

The measurement amplifier IT 3 is preconfigured according to the weighing task. The weighing program enables the display of net, tare and gross weight as well as the parts counting or totalizing. The measuring data can be stored internally (optional).

An easy to use keyboard and an easy readable colour display are available for an easy operation. The keyboard has keys for zero setting, taring and printing. The entry of manual tare and additional data can be enter via numeric keys.

Data like weight, weight total, date, time, stored texts, entered data and calculated values can be printout or send to PLC.

FEATURES:

The IT 3 features:

- Connection for max. 8 load cells
- Legal-for-trade resolution 10,000 d
- Luminous 5" (13 cm) colour display for indication of weight, multi-lingual operator prompts and calibration dialog
- Easy to use via softkeys
- Interface options:
 - Serial interfaces
 - Ethernet
 - USB
 - Fieldbus
 - 2 digital inputs and outputs
 - Analog output
- Calibration with test weights or through entry of rated output of load cell(s). Clear operator prompts for all steps of calibration sequence.
- Stainless steel housing (IP 69K) as
 - Desk/ wall version,
 - Panel-mount version or
 - Blackbox version (without display and keyboard)

TECHNICAL DATA:

Weighing terminal IT 3

Transmitter input

Transmitter	max. 8 load cells
A/D modifier	19 Bit
Internal resolution	524,000 d
Measurement rate	50 - 800 per second
Sensitivity	0.33 $\mu\text{V}/\text{e}$
Internal event log for scale errors.	

One SIM socket for:

Serial interface (optional)

to connect a PC, printer, remote display or reference scale via interface RS 232 or RS 485 4-wire.

Ethernet (optional)

to connect to TCP/IP networks or a network printer. Remote diagnosis is possible via internet.

USB (optional)

to connect a USB printer or keyboard.

One extension socket for:

SIM-ETH3 (optional)

providing a second SIM socket.

Fieldbus interface (optional)

for Profinet, Profibus DP or Ethernet/IP.

Shift adjust board

for 4 load cells (IT3 blackbox only).

One socket for digital inputs/ outputs or analog output:

Digital inputs and outputs (optional)

Type and quantity	each 2 pcs., 24 V DC, optoisolated
Inputs	for start of weighing and taring or start/stop of filling
Outputs	for setpoint monitoring or simple filling applications

Analog output (optional)

Voltage	0-10 V, 2-10 V DC
Power	0-20 mA, 4-20 mA

Electrical connection

Voltage	110-240 V AC, 50-60 Hz or 12-30 V DC via integrated power supply unit or via external battery
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Standard programs

BASIC	Legal-for-trade weighing terminal, e.g. as desk-top or floor scale
TRUCK	Legal-for-trade truck scale terminal
COUNT	Parts counting terminal
CHECK	Checkweighing terminal
FILL	Simple filling controller
ONLINE	Legal-for-trade ONLINE weighing terminal
ONLINE OP	Legal-for-trade fieldbus weighing terminal

Calibration

Procedure	with test weights or through entry of rated output of load cell(s). Option for the linearization of load curve. Clear operator prompts for all steps of calibration sequence.
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Data storage

internal legal-for-trade data archive to record the latest 1,000,000 weighing results
Power-fail-safe storage of date and time
Application memory for BASIC, COUNT, TRUCK and FILL.

Environmental conditions

Temperature range	-10°C up to + 40°C max. 95 % relative humidity, non-condensing.
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Protection

IP 69K

Design

stainless steel housing, optionally with splash and dust cover

Desk/ wall 228 x 214 x 124 mm (WxHxD)

Panel-mount 241 x 180 x 47 mm (WxHxD)
Cut-out in panel 224 x 163 mm

Blackbox 221 x 171 x 64 mm (WxHxD)

Display

Luminous 5" (13 cm) colour display, backlighted

Keyboard

Sealed membrane keyboard with tactile feedback with numeric keys for the input of tare weights and additional information, scale keys for zero setting and taring and function keys. Input of alpha characters via multiple assignment of numeric keys.

Approvals

EG approval as non-automatic weighing instrument
EG approval as automatic gravimetric filling instrument (pending)
NTEP approval (pending)