



IT5 *ONLINE OP*

W&M Approved, Remotely Controlled Weighing Terminal

IT5 *ONLINE OP* is an industrial weighing terminal with an Ethernet interface that combines the functions of a filling controller and an operator panel.

Together with other fieldbus participants, up to 127 devices can be connected to a PLC or a PC via a bus cable.

Scales of any design can be connected, e.g. hopper or floor scales.

High resolution and fast signal processing of the IT5 *ONLINE OP*

enable rapid and precise weight measurements and fillings. The communication between host and **IT5 *ONLINE OP*** takes place via data word exchange.

Weight values and scale status information as well as signal input states can be read from data words.

Interfaces:

- Modbus® TCP
- Profibus DP
- Profinet
- Ethernet/IP

The following functions can be controlled by the host:

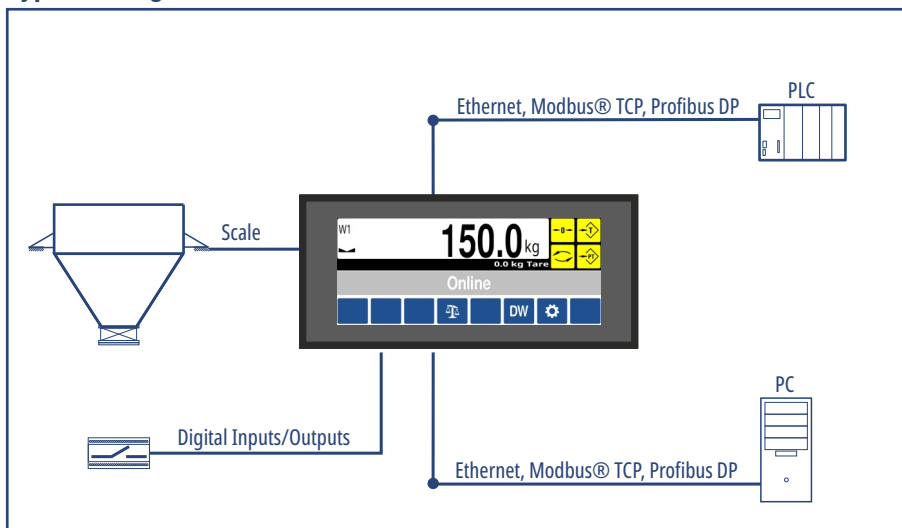
- Filling (weigh-in or weigh-out)
- Taring
- Clear tare
- Zero setting
- Display text
- Enter data
- Set digital outputs.

The housing of the IT5 *ONLINE OP* is only suitable for **panel mounting**.

Housing:

- Glass fiber reinforced PPE-PS housing
- Fascia plate protected to IP20 (IP54 with optional sealing frame).

Typical configuration:



Weighing terminal with fieldbus protocol

IT5 ONLINE OP makes connecting weighing terminals/filling controls to PLCs or PCs for process control and visualization incredibly easy.

The terminal is connected and configured via Modbus® TCP, Profibus DP, Profinet. Network communication automatically ensures that certain data words of the network participants are constantly updated. Commands and information are exchanged by writing and reading these data words.

The connected host is always in full control of the complete sequence of the operation.

The following example shows how a PLC controls the automatic filling of a hopper scale.

- The PLC describes the data words for target values, tolerances and preact values
- The PLC sets the command bit 'Start Filling'
- **IT5 ONLINE OP** controls the automatic filling, optimizes the preact value and writes the actual value into the data word 'Filling quantity'
- **IT5 ONLINE OP** sets the status bit 'Filling complete'.

Commands

- Capture weight, settled or in motion
- Filling (weigh-in or weigh-out)
- Manual tare (preset tare)
- Autotare
- Zero setting
- Display text (OP function)
- Read digital input
- Switch digital output on/off.

Security

- Power-fail-safe data storage
- Password protection
- Battery-backed real-time clock.

Weighing electronics

- Connection module for analog load cells (AWX)
- Calibration as single- or multiple-range scale and as single- or multiple-interval scale
- Weights & Measures approved resolution of 6,000 d with a max. preload of 80 %, internal resolution of 524,000 d.

Display and keyboard

Bright 4.6" TFT color display with wide viewing angle.

Digital interfaces

- Max. 4 internal opto-isolated inputs and 4 internal opto-isolated outputs (24 V)
- Option: external relay or transistor modules.

Ethernet interface

Internal Ethernet interface with configurable IP address, with web server functionality.

Integrated USB interface (option)

To connect scanner or PC keyboard.

Electrical connections

110 (–15 %)–240 (+10 %) V AC;
50 / 60 Hz, option: 12–30 V DC,
power consumption max. 20 VA.

Operating temperature

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

Accessoires

Relay module.

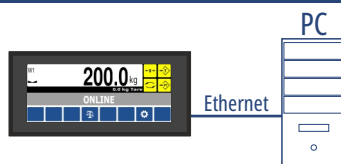
Technical details:

Installation



- Plastic housing, front protected to IP20 or IP54 with optional sealing frame
- Panel-mount installation
- Dimensions W x H x D: 145 x 72 x 130 mm
- Cutout in panel: 136.2 x 66.2 mm

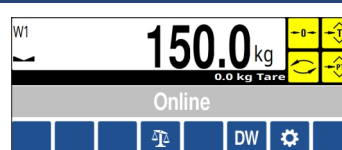
Ethernet



- Connection to Ethernet network via RJ45 socket on the rear of the device
- Option: connection to Ethernet/IP network via extension module FBX-IP using the:
- RJ45 double adapter for Ethernet/IP network (fitted at the factory or retrofit)

Display/Operation:

Online Display



- In operation mode ONLINE, IT5 ONLINE OP operates as a remote-controlled weighing terminal via PC or PLC)
- Commands received via the interface are executed according to their function
- Button DW can be used to call up a data monitor for diagnostic purposes

Directives 2014/30/EU, 2014/31/EU,
2014/32/EU, 2014/35/EU

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

CE Eu Type-Examination Certificate as
non-automatic weighing
instrument



ETL certified in accordance
with UL 62368-1 and CSA
C22.2 No. 62368-1



EMI in compliance
with FCC part 15



Other certificates
on demand

