

DGT

DGT: 4-CHANNEL DIGITAL WEIGHT TRANSMITTER/INDICATOR



Multipurpose weight transmitter for panel mounting on DIN bar. **Ideal as an independent or dependent 4-channel digital junction box**, permitting the direct reading and diagnostics of each connected load cell. The wide range of available interfaces, makes it easy to integrate the weighing with any automation system. CE-M approvable (OIML R-76 / EN 45501).



Working in cooperation with:

P.R.S. TORFBUD DAWID SZOPA
UL. KOPERNIKA 6 - 41500 - CHORZOW - POLAND
Tel. 0048-322413522 Fax. 0048-322413522
torfbud@wagielektroniczne.com.pl

The best solution
for advanced industrial
applications

MAIN FEATURES

- Easy to use 5-key waterproof keyboard.
- Highly efficient red LED display with 6 10-mm digits and 6 LEDs for showing active functions.
- Case for mounting on DIN bar or on the wall.
- Calibration, Set-Up parameters, configurable from keyboard or from PC with DINI TOOLS.
- Up to 10.000e or multirange 2 x 3000e @ 0,3 $\mu\text{V/d}$ in CE-M approved version for legal for trade use.
- Up to 1.000.000 displayable divisions with internal resolution up to 3.000.000 points.
- Up to 8 signal linearization points with DINITOOLS (3 from keypad).
- A/D 24-bit sigma-delta conversion, up to 200 conv./sec. autoselect.
- Connectable with up to 8 analogue load cells with 350 Ohm input resistance.
- Management of a digitally equalised 4-cell weighing system or management of 4 independent weighing systems.
- From 12 Vdc to 24 Vdc power supply.

MAIN CERTIFICATIONS

- EU Type Examination Certificate (45501:2015)
- OIML R76
- OIML R61 - MID
- OIML R51

TRANSMITTER / INDICATOR: FUNCTIONS

- **THROUGH KEYBOARD:**
Zeroing; Semi automatic and presettable tare, print and/or data transmission; ON/Stand-by.
- **SELECTABLE:**
High Resolution Weighing x 10; Net/Gross or lb/kg conversion; Weighs totalisation; Formulation; Approved transmission of the weight to PC/PLC (with ALMEM Alibi memory option); Counting; In/Out Truck weighing; Hold e Peak.
- **EXTERNAL INPUT:**
Simulation of key pressure; Keyboard lock.
- **MOSFET OUTPUT:**
Set Point Control on the weight, either positive (in loading) or negative (in unloading), or on the pieces (counting mode), with programmable enabling/disabling thresholds, as direct check or upon weight stability.
- **SERIAL PORTS:**
On all models: Reading of the net, gross, and tare weights; Clearing; Semi automatic and presettable tare; Scale switch; Setting of outputs activation thresholds; Reading/Writing of Alibi Memory.
DGT4 and DGT4AN models: Reading of microvolts or ADC converter for all the channels; Message display; Printing; Setting of APW in counting mode; Simulation of key pressure; MODBUS serial protocol.
- **THROUGH 16 bit ANALOGUE OUTPUT (DGT4AN):**
Analogue output proportional to the net or gross weight, either positive (in loading) or negative (in unloading).

I/O SECTION

- RS232/C bidirectional port configurable for connection with external units.
- RS485 bidirectional port configurable for network connection (DGT4 and DGT4AN models).
- PROFIBUS serial interface (DGT4PB model).
- 2 photomofet outputs: 150 mA 48 Vac / 150 mA 60 Vdc (NO), with configurable functions.
- 2 optoisolator photocoupler inputs: 12÷24 Vdc, 5 mA min - 20 mA max, with configurable functions.
- 16-bit analogue output (DGT4AN model) 4-20mA / 0-5Vdc / 0-10Vdc at choice. Maximum load applicable on the output current: 350Ohm. Minimum load applicable on the output voltage: 10kOhm.



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Calto (RO) – Italy



HEAD OFFICE
Via Della Fisica, 20
41042 Spezzano di Fiorano Modena - Italy



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