

DGTQ: DIGITAL WEIGHT TRANSMITTER/INDICATOR



Multipurpose weight indicator/transmitter for panel mounting, 4 dependent or independent channels for 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).

MAIN FEATURES

- Easy to use 5-key waterproof keyboard.
- Highly efficient red LED display with 6 13-mm digits and 6 LEDs for showing active functions.
- Case for panel mounting in Abs according to DIN standard, 96x96x80 mm (lxhpx). Perforation 90x88 mm (lxh) for panel mounting.
- Calibration, Set-Up parameters, configurable from keyboard or from PC with DINI TOOLS
- Up to 10.000e or multirange 2 x 3000e @ 0,3 $\mu\text{V/d}$ for CE-M approved legal for trade use.
- Up to displayable 800.000d 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 16 analogue load cells with 350 Ohm input resistance.
- Management of a digitally equalised 4-cell weighing system or management of 4 independent weighing systems.
- Master/Slave management (up to 4 Slaves / 1 Master).
- From 12 Vdc to 24 Vdc power supply.

FUNCTIONS

I/O SECTION

- RS232/C bidirectional port configurable for connection with external units.
- RS485 bi-directional port configurable for network connection.
- Two 150 mA 48 Vac / 150 mA 60 Vdc (NO) photomofet outputs which may be configured as direct control or upon weight stability, with programmable weight thresholds (disable and enable thresholds).
- 2 configurable optoisolator photocoupler inputs: 12÷24 Vdc, 5 mA min - 20 mA max.
- MODBUS serial protocol (DGT4, DGTQAN).
- With PROFIBUS serial interface (DGTQPB).
- With 16-bit analogue output 4-20mA / 0-5Vdc / 0-10Vdc at choice; the maximum applicable voltage is 350 Ohm and the minimum applicable voltage resistance is 10 kohm (DGTQAN).

THROUGH KEYBOARD:

Zeroing; Automatic and presettable tare; print and/or data transmission; ON/Stand-by; Weighs totalisation; Formulation; Net/Gross weight switch; Counting; Hold; Peak; kg/Lb conversion.

REMOVABLE FROM EXTERNAL INPUT:

Clearing; Automatic tare; Print and/or data transmission; Selected function command; ON/Stand-by.

UNIVERSAL WEIGHT REPEATER: Connectable to any scale or PC through the RS232 or RS485 serial connection, with software configuration of the input data string.

THROUGH SERIAL LINE:

Reading of the net, gross, and tare weights, microvolts or ADC converter for all the channels; Clearing; Automatic and presettable tare; Scale switch; Printing; Message display; Setting of APW in piece counting; Setting of set points of the outputs; Simulation of key pressure; Reading/Writing of Alibi Memory.

THROUGH PROFIBUS (DGT60PB3GD):

Reading of the net, gross, or tare weights; Clearing; Automatic tare; Scale switch; Setting of set points of the outputs; Reading/Writing of Alibi Memory.

THROUGH 16 bit ANALOGUE OUTPUT (DGT60AN3GD):

Analogue output proportional to the net or gross weight, either positive (in loading) or negative (in unloading).

OPTIONS ONLY AVAILABLE AT TIME OF ORDER

- Printer for panel mounting
- Time/Date
- Alibi Memory
- Expansion for a total of 6 relays

Available versions

Code	Description
DGTQ	Standard version with 2 inputs, 2 outputs, 1 RS232 bidirectional port and 1 RS485 bidirectional port
DGTQAN	Standard version with 2 inputs, 2 outputs, 1 RS232 bidirectional port and 1 RS485 bidirectional port and 4-20Ma / 0-5 Vdc / 0-10 Vdc analogue output
DGTQPB	Standard version with 2 inputs, 2 outputs, 1 RS232 bidirectional port and PROFIBUS

Options only available at time of order

Code	Description
KCEM	Plates kit, indicator Welmec form for each foreseen platform for legal for trade use
DCATEXMB4	DECLARATION OF ATEX CONFORMITY OF WHOLE Ex II 2GD IIC T6 T125°C SYSTEM, with relative LABEL OF WHOLE SYSTEM, for NON ATEX weight indicator connected to MB4 Dini Argeo zener barriers, connected to mechanical structure with ATEX load cells (each cell must be certified with CCATEX option).
TPRPC	Thermal printer for panel mounting with >50mm/sec. speed, 203 dpi resolution, 24/40 columns, 58 mm width; 50 mm roll diameter. Inclusive of 110-240Vac/5 VDC power adapter
TPRP	Thermal printer for panel mounting with >50mm/sec. speed, 203 dpi resolution, 24/40 columns, 58 mm width; 50 mm roll diameter. 5 VDC power supply.
DG6R	Expansion for a total of 6 relays
DFCLK	Real Time Clock (Time/date)
ALMEM	Alibi memory (fiscal memory) with time/date; max. 120.000 weighs

Accessories

Code	Description
ALSW	100-240 VAC 2,1 A 12 Vdc output, switching power adapter