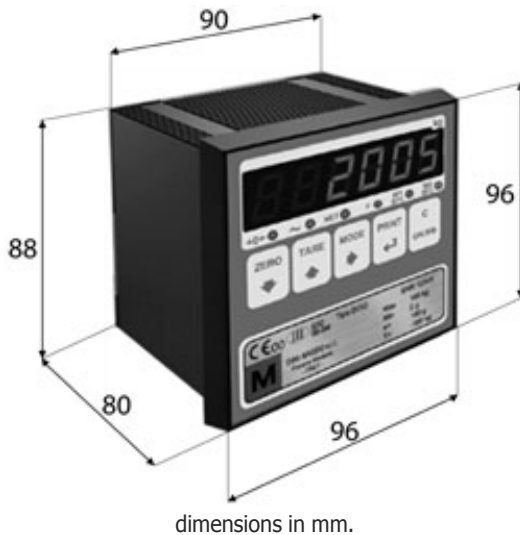


# DGTQ: DIGITAL WEIGHT TRANSMITTER/INDICATOR



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 (lxhxp). 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  $\mu\text{V}/\text{d}$  in CE-M approved version for 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.

## 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.  
**DGTQ and DGTQAN 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 (DGTQAN):**  
Analogue output proportional to the net or gross weight, either positive (in loading) or negative (in unloading).

## MASTER/REPEATER OPTION (MSTSLV code)

- Specific programme for use of the indicator as a universal weight repeater or as a multi-scale repeater (MASTER) in combination with DFW/DGT/MCW.

### FUNCTIONING MODES:

- **Multi-scale repeater (MASTER)**  
function which allows to repeat up to 32 independent scales, with the possibility of managing their functions, or displaying and printing the sum of the weighs of all the scales.
- **UNIVERSAL weight repeater**  
function which allows to repeat the weight of any scales, through the configuration of the input string.

## OPTIONS ONLY AVAILABLE AT TIME OF ORDER

- Printer for panel mounting.
- Real time clock.
- Alibi Memory.

## I/O SECTION

- RS232/C bidirectional port configurable for connection with external units.
- RS485 or RS232/C bi-directional port configurable for network connection.
- PROFIBUS serial interface (DGTQPB 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 (DGTQAN model) 4-20mA / 0-5Vdc / 0-10Vdc at choice; maximum applicable voltage: 350 Ohm; minimum applicable voltage resistance: 10 kohm.

- Expansion for a total of 6 relays.

### Available versions

Code	Description
DGTQ	Weight indicator / Transmitter for panel mounting, with 5-key keypad, LED display, and standard weighing programme.
DGTQAN	Weight indicator / Transmitter for panel mounting, with 5-key keypad, LED display, analogue output, and standard weighing programme.
DGTQPB	Weight indicator / Transmitter for panel mounting, with 5-key keypad, LED display, PROFIBUS port, and standard weighing programme.

### Options only available at time of order

Code	Description
KCEM	Kit of plates and Welmec form for the approval of the system for legal for trade use, for each provided platform/weighing system, connected to Dini Argeo indicator.
DCATEXMB4	Declaration of ATEX conformity of the whole, Ex II 2GD IIC T6 T125°C X 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). ATEX CONFORMITY DECLARATIONS will be supplied in English.
MSTSLV	Optional program for using the indicator as a universal weight repeater or as a multi-scale repeater (MASTER) in combination with the DFW/DGT/MCW.
TPRPC	Thermal printer for panel mounting for use with weight indicator, with connection cable, 110-240Vac / 5 VDC power adapter included.
TPRP	Thermal printer for panel mounting with connection cable, 5V power supply (power adapter not included).
DG6R	Expansion for a total of 6 outputs
DFCLK	Real time clock for printing/displaying of the date and time.
ALMEM	Alibi memory (fiscal memory, max 120.000 weighs) for approved transmission of the weight to PC/PLC. Real time clock integrated for print of the date/time.
TECSUP	Technical assistance by telephone or at our premises for instrument configuration and printout formatting. NET HOURLY PRICE.

### Accessories

Code	Description
ALSW	100-240 VAC 2,1 A 12 Vdc output, switching power adapter
TECMAN	Printed technical manual (free, if downloaded from the web). NET PRICE.
UMAN	Printed user manual (free, if downloaded from the web and available in the CD, fitted with the product). NET PRICE.