

# DGT20: BENCH DIGITAL WEIGHT TRANSMITTER/INDICATOR



DGT20: Bench digital weight transmitter/indicator.

Multipurpose weight transmitter ideal for the production of bench or floor scales, dosage, filling systems etc. The wide range of available interfaces, makes it easy to integrate the weighing with any automation system.

## MAIN FEATURES

- Easy to use 5-key waterproof keyboard.
- Highly efficient red LED display with 6 20-mm digits and 6 LEDs for showing active functions.
- Aluminium/painted steel protective case, fitted with support bracket for table or wall mounting.
- Dimensions (lxhwx) 207x150x163mm.
- Calibration, Set-Up parameters, configurable from keyboard or from PC with DINI TOOLS.
- 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 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.
- From 12 Vdc to 24 Vdc power supply; 12Vdc power adapter included.



## SOFTWARE SCALEMONITOR

Scalemonitor is a simple and economical solution for receiving the weight data from PC to one or more scales, and making them suitable and sorting in the most common office format



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SCALEMONITOR

## I/O SECTION

- RS232/C bidirectional port (RJ45 connector) configurable for connection with external units.
- RS485 bidirectional port configurable for network connection.
- PROFIBUS serial interface (DGT20PB model).
- 2 photomofet outputs: 150 mA 48 Vac / 150 mA 60 Vdc, with configurable functions.
- 2 optoisolator photocoupler inputs: 12÷24 Vdc, 5 mA min - 20 mA max, with configurable functions.
- 16-bit analogue output (DGT20AN model) 4-20mA / 0-5Vdc / 0-

## 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; 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.  
**DGT20 and DGT20AN 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 (DGT20AN):**  
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,

10Vdc at choice; maximum applicable voltage: 350 Ohm; minimum applicable voltage resistance: 10 kohm.

through the configuration of the input string.

## OPTIONS AND ACCESSORIES

- Thermal printer for table or for panel mounting.
- Real time clock.
- Kit for panel installation.

## Models available

Code	Description
DGT20	Weight indicator / Transmitter for table or panel mounting, with aluminium/steel case, 5-key keypad, LED display, and standard weighing programme (not including the repeater modes).
DGT20AN	Weight indicator / Transmitter for table or panel mounting, with aluminium/steel case, 5-key keypad, LED display, analogue output, and standard weighing programme (not including the repeater modes).
DGT20PB	Weight indicator / Transmitter for table or panel mounting, with aluminium/steel case, 5-key keypad, LED display, PROFIBUS port, and standard weighing programme (not including the repeater modes).

## Options only available at time of order

Code	Description
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.
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.
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 (this option does not include the weighing functions).
DFCLK	Real time clock for printing/displaying of the date and time.
OBTPRB	Thermal printer in table version for weight indicator, with ABS case, 1,5 m connection cable and internal power adapter.
TPRP	Thermal printer for panel mounting for use with weight indicator, with connection cable, 5V power supply.
TPRPC	Thermal printer for panel mounting for use with weight indicator, with connection cable, 110-240Vac / 5 VDC power adapter included.
TECSUP	Technical assistance by telephone or at our premises for instrument configuration and printout formatting. NET HOURLY PRICE.

## Accessories

Code	Description
DGTSTF	Kit for panel installation for weight indicator.
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.