

# DGT1: Multifunction, Digital Weight Transmitter/Indicator



As of: Thursday, November 27, 2025



## Standard Features

- Easy to use 5-key waterproof keyboard.
- Highly efficient red LED display with 6 8-mm digits and 6 LEDs for showing active functions.
- Standard dimensions for mounting on DIN bar.
- Calibration, Set-Up parameters, configurable from keyboard or from PC with DINITOOLS.
- Up to 10.000e or multirange 2 x 3000e @ 0,3  $\mu$ V/e in CE-M approved version for legal for trade use.
- Up to 800.000 displayable divisions with internal resolution up to 3.000.000 points.
- Up to 8 signal linearization points with DINITOOLS (3 from keypad).

## Approvals



- 1 channel A/D 24-bit sigma-delta conversion, up to 400 conv./sec. autoselect.
- Connectable with up to 8 analogue load cells with 350 Ohm input resistance.
- From 12 Vdc to 24 Vdc power supply.
- Fitted with real time clock and Alibi memory.

Compact, multifunction weight transmitter / indicator, for panel mounting on DIN bar. It allows the direct reading and diagnostics of the connected weighing system. The wide range of available interfaces, makes it easy to integrate the weighing with any automation system.

# Specifications

<b>Transmitter / Indicator: Functions</b>	<b>I/O Section:</b>	<b>Certifications:</b>
<b>Keyboard:</b> Zeroing; Semi automatic and presettable tare, print and/or data transmission; ON/Stand-by	- RS232/C bidirectional port configurable for connection with external units. - RS485 bidirectional port configurable for network connection. - 16-bit analogue output (DGT1AN model) 4-20mA / 0-5Vdc / 0-10Vdc at choice. Maximum load applicable on the output current: 300Ohm. Minimum load applicable on the output voltage: 1kOhm. - 2 photomosfet outputs: 150 mA 48 Vac / 150 mA 60 Vdc (NO), with configurable functions (DGT1IO model). - 2 optoisolator photocoupler inputs: 12÷24 Vdc, 5 mA min - 20 mA max, with configurable functions (DGT1IO model).	CE-M EN 45501 OIML R76 OIML R61 - MID OIML R51 Australian legal for trade certificate of approval (NMI S788) UL certificated version (upon request)
<b>Selectable:</b> High Resolution Weighing x 10; Lb/kg conversion; Approved transmission of the weight to PC/PLC (with ALMEM Alibi memory option) e Peak.		
<u>Available in 7.15 firmware version:</u> Net/Gross; Weighs totalisation; Formulation; Counting; In/Out Truck weighing and Hold.		
<b>Serial Ports:</b> <ul style="list-style-type: none"><li><b>On all models:</b> 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.</li><li><b>DGT1 and DGT1AN models:</b> 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.</li></ul>	<b>Master/Repeater Option (MSTSLV code):</b> Specific program for use of the indicator as a universal weight repeater or as a multi-scale repeater (MASTER) in combination with DFW/DGT/MCW.	<b>Functioning Modes:</b> <b>Multi-scale repeater (MASTER)</b> 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 weights of all the scales.  <b>UNIVERSAL weight repeater</b> function which allows to repeat the weight of any scales, through the configuration of the input string.

positive (in loading) or negative (in unloading).

## Parts

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### Part # Description

#### Available Versions

<b>DGT1</b>	Weight transmitter for DIN bar. 5-key keypad, LED display, date/time, alibi memory, and multifunction weighing program.
<b>DGT1IO</b>	Weight transmitter for DIN bar with 2 IN and 2 OUT. 5-key keypad, LED display, real time clock, alibi memory. Multifunction weighing programme.
<b>DGT1AN</b>	Weight transmitter for DIN bar with analogue output. 5-key keypad, LED display, real time clock, alibi memory. Multifunction weighing programme.

# Options

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## Part #      Description

### RS485 Lightning and Surge Protection

**RS485PDIN** Protection circuit for port 485, with enclosure for DIN rail installation. Protection according to IEC 1000-4-5/D (IEC 801-5/D).

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### Approval for Sale to Third Parties

**KCEM** Plates and Welmec form for legal trade use of a scale. NET PRICE. Service available in combination with a Dini Argeo indicator.

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**ECEM-AU** Single platform/scale legal-for-trade approval for Australia.

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### Storing Weighments

**SWM** "WeiMonitor" PC program to monitor and record in real time weighs performed on the connected scale (the price is intended for the license to manage one scale).

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### PC Software for Managing Weighbridges

**WEITRUCK-1** PC software for vehicle weighing. It can be combined with DFW, DGT and 3590 series' weight indicators. Databases to store customer, material and vehicle data, management of the totals and programmable printouts. Alibi Memory is required for DFW/DGT (3590 series is equipped with alibi memory as standard).

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### Printers / Labelers

**TPRP** Panel thermal printer. Fitted with connection cable, 5Vdc power supply (power adapter not included).

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**TPRPCAL** 5Vdc power supply unit.

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### Communication Interfaces

**SETHDIN-1** RS232 / RS485 / Ethernet converter. Modbus RTU / Modbus TCP/IP (if applicable). Connectable to all Dini Argeo weight indicators via the serial port. ABS housing for DIN rail. With PCB, screw terminals, plastic box and UL marked labels (if applicable).

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**PROFI232-1** External RS232/RS485/PROFIBUS interface for DIN bar. Connectable to the indicators with Profibus protocol with PCB, terminal blocks, plastic box and UL-marked labels (if applicable).

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### Power Supply for DIN Bar

**MDR2012** 12Vdc power unit for DIN bar. 110/240Vac input. Voltage regulation range 10.8-13.2V, Max 20W, CE and UL certified. Not compatible with BOX2121S.

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**DR1512** 12Vdc power unit for DIN bar. 110/240Vac input.

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### ABS boxes for wall mounting

**BOX2121S** Wall IP65 box with transparent door. Dimensions 210x210x100 mm, equipped with 2 cable glands. Suitable for DGT1 and DGT4 series instruments.

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Part #	Description
<b>Options for ATEX Version</b>	
<b>ZBA1S</b>	Intrinsic protection three channel Zener barrier. Specific for connection to load cells, for mounting on DIN rail in a safe area, or in a flame-proof case. Marking: ATEX/IECEx II (1) GD [Ex ia Ga] IIC [Ex ia Da] IIIC. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
<b>KZBA-1</b>	ATEX ABS housing kit with Zener Barrier ZBA1S for load cells. For intrinsically safe weighing systems in a dangerous zone. Dimensions 179x359x166,5mm. Marking of housing + Zener Barrier ZBA1S: ATEX II 3(1)G Ex nA [ia Ga] IIC T4 Gc X for gas, ATEX II 3(1)D Ex tc [ia Da] IIIC T135°C Dc IP66 X for dust. Provided with safety instructions and the ATEX EU declaration of conformity (EN and IT).
<b>KMB4-1</b>	Kit of 3 ATEX Zener barriers for load cells, in an ABS box. For up to 4 load cells of 350 ohm, for intrinsic protection weighing systems in a dangerous area. Marking of the whole box with three Zener barriers: ATEX II 3(1)G Ex nA [ia Ga] IIC T4 Gc (-20°C = Ta = +40°C) for gas, ATEX II 3(1)D Ex tb [ia Da] IIIC T130°C Dc IP65 (-20°C = Ta = +40°C) for dusts. Provided with safety instructions and the ATEX EU declaration of conformity (EN and IT).
<b>DCATEXMB4</b>	ATEX declaration for the whole system with Dini Argeo Zener barriers. Ex II 2G IIC T6 Gb X e Ex II 2D IIIC T125°C Db X system, with label of the whole system, for weight indicator connected to Dini Argeo zener barriers, connected to a mechanical structure with ATEX load cells (each cell must be certified with CCATEX option). Provided with descriptive document of the assembly and ATEX EU declaration of conformity of the assembly (EN and IT).
<b>JB4QA</b>	ATEX equalisation box made of ABS IP67, for up to 4 cells. 4 + 1 fairleads. Marking: ATEX II 2G Ex ib IIC T6 Gb for gases, ATEX II 2D Ex tb IIIC T115°C Db IP65 for dust. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
<b>JB4QAI</b>	ATEX equalisation box made of stainless steel IP66 for up to 4 cells. 4 + 1 fairleads. Marking: ATEX II 2G Ex ib IIC T6 Gb for gases, ATEX II 2D Ex tb IIIC T115°C Db IP65 for dusts. Provided with safety instructions and the ATEX EU declaration of conformity (EN, DE, FR, ES and IT).
<b>EXCB6</b>	Blue shielded cable 6x0.22 mm <sup>2</sup> , only for EX i (2GD) assemblies. PVC inner sheath. Tinned copper braid shielding. Polyurethane outer sheath, diameter 5.8 mm. Temperature range: -40 / +80 °C. Minimum bending radius >= 7 x O.D. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

## Weight Repeater Software

<b>MSTSLV</b>	Program to use the indicator as a repeater. It must be combined with the DFW and DGT weight indicators.
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## Other Options

<b>TECMAN</b>	Printed technical manual (Free download from the website).
<b>UMAN</b>	Printed user manual (Free download from the website).
<b>TECSUP</b>	Technical assistance by telephone upon request.
<b>ECEMDOC</b>	Printed EU declaration of conformity, EU certificate of verification, test certificate and metrological book (free download from our website, only for approved CE-M products). NET €.

Dini Argeo S.r.l. | Via della Fisica, 20 - 41042, Spezzano di Fiorano, Modena (MO), Italy | Tel.:

+39 0536 843418

[www.diniargeo.com](http://www.diniargeo.com)

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