

# DGT1P Panel Digital Weight Transmitter/Indicator



As of: Thursday, November  
27, 2025



## Standard Features

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Panel weight transmitter/indicator with aluminum case. Ideal as microcontroller in industrial weighing and dosing systems, it makes it easier and safer to integrate the weighing into any automation system. Up to 2 programmable digital inputs and 6 outputs.

# Specifications

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**Power supply:**  
12-24 Vdc

**Maximum power:**  
4,1 W

**Converter:**  
A/D 24 bit with 1 channel

**Max number of scales:**  
1

**Load cells connection:**  
4 or 6 wires (with sense)

**Conversion rate:**  
400 Hz

**Selectable sampling rate:**  
up to 400 conv./sec

**Displaying:**  
up to 800.000d

**Signal sensitivity:**  
0,01  $\mu$ V/d (0,03  $\mu$ V/e)

**Resolution:**  
3.000.000 points

**Linearization:**  
up to 8 points

**Connectable load cells:**  
up to 16x350  $\Omega$  cells

**Serial ports:**  
1 RS485 port

**Analog output:**  
16 bit optoisolated (DGT1PAN Model) choosing between 0-5Vdc, 0-10Vdc, 4-20mA or 0-20mA.

**Digital outputs:**  
n. 2 OUT (optional up to 6), configurable optoisolated photomofet

**Digital inputs:**  
n. 2 IN, configurable optoisolated

**Case:**  
Aluminium.  
Dimensions:100 x 53 x 136 mm (l x h x w).  
Panel cutout: 92 x 44 mm (l x h).

**Calibration:**

- Theoretical (mV/V)
- With sample weights

**Keyboard functions:**  
zeroing, tare, function mode, print, manual data sending, On/Stand-by

**Program functions:**

- Setpoint
- High resolution
- Peak
- Alibi Memory
- Unit of measure conversion

**Keyboard:**  
Mechanical with 5 digits, waterproof

**Display:**  
14,2mm red LED

**Certifications:**  
CE-M EN 45501  
OIML R76  
OIML R61 - MID  
OIML R51

# Parts

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Part #	Description
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## Available Versions

DGT1P	Panel weight transmitter with aluminum case. 2 IN and 2 OUT. 5-key keypad, LED display.
DGT1PAN	Panel weight transmitter with aluminum case. 2 IN, 2 OUT and analogue output. 5-key keypad, LED display.

# Options

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Part #	Description
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## 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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## Digital Input / Output

C4OUT	Set of 4 optoisolated outputs (mounting and cable gland excluded).
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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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## Clock Calendar / Alibi Memory for Type-Approved Communication

ALMEM-1	Alibi memory (fiscal memory, max 120.000 weighs) for approved weight transmission to PC/PLC or data recording on MMC/USB. Built-in real time clock to print the date/time with PCB, screw terminal, plastic box and UL-marked labels. If applicable, it requires FW 05.00.02 or higher. Not compatible with weight repeaters.
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DFCLK	Real time clock for printing/displaying of date and time. With UL marked PCB, screw terminal, plastic box and labels (if applicable).
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## PC Software

D-LEGAL	Legal for trade approved software for recording weighing results to a PC (virtual alibi function) with an integrated API library for interfacing with other software.
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D-API	Software for recording weighing results to a PC (for internal use) with an integrated API library for interfacing with other software.
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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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## 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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## Options for ATEX Version

ZBA1S	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).
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Part #	Description
<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).

## Other Options

<b>UMAN</b>	Printed user manual (Free download from the website).
<b>TECMAN</b>	Printed technical 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 €.

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