

DGTPK: Digital Weight Transmitter/Indicator with Extended Keyboard



Standard Features

- 20-key numeric/functional waterproof keyboard: quick entry of the setpoints and the tare value.
- Highly efficient red LED display with 6 20-mm digits and 12 LEDs for showing active functions.
- Stainless steel case for panel mounting.
- Frontal panel in aluminium, with protection gasket.
- Front panel dimensions: 170x170mm.
- Drill template: 161x162mm.
- Fitted with bracket for use on table or wall mounting. A/D 24-bit sigma-delta conversion, up to 400 conv./sec. autoselect.
- Connectable with up to 16 analogue load cells with 350 Ohm input resistance.

Approvals



**Australian
Government
Approved**

- Up to 800.000 displayable divisions with internal resolution up to 3.000.000 points.
- Management of a digitally equalised 4-cell weighing system or management of 4 independent weighing systems.
- Calibration, Set-Up parameters, configurable from keyboard or from PC with DINITOOLS.
- Up to **8 signal linearization points** with DINITOOLS (3 from keypad).
- Time/Date
- From 12 Vdc to 24 Vdc power supply. EU, UK, US, AU plugs included as standard.
- Fitted with 12 V switching power adapter.

Multifunction weight transmitter for table or panel mounting. Ideal as a microcontroller in industrial weighing and dosage systems, making an easier and safer integration of the weighing to any automation system. Fitted with 4 inputs and 6 outputs, programmable. Numerical keyboard for the quick entry of the setpoint and the tare.

Specifications

FUNCTIONS:

Keyboards

Zeroing; Semi automatic and presettable tare, print and/or data transmission; ON/Stand-by. Quick entry of the setpoints and the tare values.

Selectable

High Resolution Weighing x 10; Lb/kg conversion; Approved transmission of the weight to PC/PLC (with ALMEM Alibi memory option) e Peak.
Available in 7.15 firmware version downloadable from the DOWNLOAD area:
Net/Gross; Weighs totalisation; Formulation; Counting; In/Out Truck weighing and Hold.

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

I/O SECTION:

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 photomofet 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).

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.

CERTIFICATIONS:

CE-M EN 45501
OIML R76
OIML R61 - MID
OIML R51 - MID
Australian legal for trade certificate of approval (NMI S788)

microvolts or ADC
converter for all the
channels; Message
display; Printing; Setting of
APW in counting mode;
Simulation of key
pressure; MODBUS serial
protocol.

16 but Analogue Output

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

Parts

Part #	Description
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{#Available Versions}

DGTPKV2	Indicator for table/panel mounting, with 4 IN and 6 OUT. Stainless steel case, 20-key keypad, LED display, and standard weighing program.
DGTPKANV2	Indicator for table/panel mounting, 4 IN, 6 OUT, analog output. Stainless steel case, 20-key keypad, LED display, and standard weighing programme.
DGTPKPBV2-1	Indicator for table/panel mounting, 4 IN, 6 OUT, Profibus. Stainless steel case, 20-key keypad, LED display, and standard weighing program.

Options

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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{#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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{#Weight repeater software}

MSTSLV	Program to use the indicator as a repeater. It must be combined with the DFW and DGT weight indicators.
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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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OBTPRB	Table thermal printer. For weight indicator, with IP40 ABS case, 1,5 m connection cable and internal power supply. Thermal paper roll included as standard.
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{#Power supply}

MDR2012	12Vdc power unit for DIN bar. 110/240Vac input. 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}

RSCBUSB-1	USB PC/RS232 converter cable, l=1,5m. USB/RJ11 connector.
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RSCBUSB485	USB cable converter PC/RS485, l=1,5m. With metallic PG9 cable gland. To be combined with an indicator fitted with optional or standard RS485 output.
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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
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Part #	Description
	and UL-marked labels. If applicable, it requires FW 05.00.02 or higher. Not compatible with weight repeaters.
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).
{#Connection cables}	
ETHCBRJ	Ethernet cable, l=1,5m. Fitted with fairlead, for connection between indicator and PC network.
{#Columns, Supports Brackets, Visors}	
DGTSTF	Kit for panel installation.
{#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).
KZBA-1	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).
DCATEXMB4	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).
KMB4-1	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).
{#Other options}	
TECSUP	Technical assistance by telephone upon request.
TECMAN	Printed technical manual (Free download from the website).
UMAN	Printed user manual (Free download from the website).
ECEMDOC	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 €.

