DGTP: Panel Digital Weight Transmitter/Indicator

Standard 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.
- Case for panel mounting. Dimensions: 143,5 x 72 x 129mm(lxhxw). Panel cutout: 136,5 x 67,5 x 140mm (lxhxw).
- A/D 24-bit sigma-delta conversion, up to 400 conv./sec. autoselect.
- Management of a digitally equalised 4-cell weighing system or management of 4 independent weighing systems.
- Connectable with up to 16 analogue load cells with 350 Ohm input resistance.
- Up to 800.000 displayable divisions with internal resolution up to 3.000.000 points.

Approvals

Australian Government Approved

FORCE Certification

OIML

OIML Certification System

- Calibration, Set-Up parameters, configurable from keyboard or from PC with DINI TOOLS.
- Up to **8 signal linearization points** with DINITOOLS (3 from keypad).
- Fitted real time clock.
- From 12 Vdc to 24 Vdc power supply.

Multipurpose weight transmitter for 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. Wide range of available interfaces.

Approvals:
CE-M EN 45501, OIML R-76, OIML R-61 (MID), OIML R-51 (MID), Australian approval

Specifications

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; Lb/kg conversion; Approved transmission of the weight to PC/PLC (with ALMEM Alibi memory option) e Peak.

Available in 7.15 firmware version:
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.
- **DGTP and DGTPAN models:** Reading of microvolts or ADC converter for all the

Through 16 bit Analogue Output (DGTPAN):
Analogue output proportional to the net or gross weight, either positive (in loading) or negative (in unloading).

Master/Repeater Option (MSTSLV code):
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.

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.

I/O Section:
- 1 RS232/C or RS485 bidirectional port configurable for connection to PC or external units.
- 1 RS232/C bidirectional port configurable for connection to printer.
- PROFIBUS serial interface (DGTPPB model).
- 6 photomosfet outputs: 150 mA 48 Vac / 150 mA 60 Vdc (NO), with configurable functions.
- 4 optoisolator photocouplers inputs: 12÷24 Vdc, 5 mA min - 20 mA max, with configurable functions.
- 16-bit analogue output (DGTPAN 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.

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

channels; Message display; Printing; Setting of APW in counting mode; Simulation of key pressure; MODBUS serial protocol.

Parts

Part #	Description

Available Versions

DGTP	Indicator for panel mounting with 4 IN and 6 OUT. 5-key keypad, LED display, and standard weighing program.
DGTPAN	Indicator for panel mounting with 4 IN, 6 OUT, analogue output. 5-key keypad, LED display, and standard weighing program.
DGTPPB-1	Indicator for panel mounting with 4 IN, 6 OUT, Profibus. 5-key keypad, LED display, and standard weighing program.

Options

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).

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

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).

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).

Weight Repeater Software

MSTSLV	Program to use the indicator as a repeater. It must be combined with the DFW and DGT weight indicators.

Printers / Labelers

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

Communication Interfaces

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.
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).

Power Supply

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

Part #	Description

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 €.