

DGT4X

DGT4X - HIGH SPEED WEIGHT TRANSMITTER



Weight transmitter for weight transfer to PLC via fieldbus, analog output or RS485.

It allows the reading and diagnostics of each load cell or each connected scale.

Available versions:

PROFINET I/O | ETHERNET/IP | ETHERCAT |
MODBUS TCP | CANOPEN | DEVICENET |
PROFIBUS | ANALOG OUTPUT | RS485

Approvals:

CE-M EN 45501, OIML R-76, OIML R-61 (MID),
OIML R-51 (MID), NMI S788

Integrated WebServer as standard for
configuration, diagnostics and data backup.

Working in cooperation with:

WMS SCALES TECHNOLOGY SRL
FAGETU IERII, NR. 54 - 407321 - IARA - ROMANIA
Tel. 40745312637
office@centrul-de-cantare-si-balante.ro

**The best solution
for advanced industrial
applications**

What's new compared to DGT4

- New cutting-edge processor, able to process up to 2600 weight readings per second. The high speed allows an extremely accurate weight filtering even with weighing times in the order of milliseconds.
- New cell feed circuit for greater weighing stability.
- Power supply circuit with protections, specific for industrial environments.
- Removable terminal blocks to simplify wiring in the electrical panel.
- Frontal micro-USB communication port for configuration, diagnostics and data backup.
- XSPEED TOOL: New PC software with oscilloscope function for system diagnostics and weighing filter optimization.
- 14.2 mm display.
- New configuration menu to simplify calibration and configuration.
- RS485 communication port always available on all versions.
- Up to 120 fieldbus updates per second.

ONBOARD WEB SERVER

- The integrated WEB SERVER allows complete diagnostics, calibration and remote configuration of the weight transmitter from the Ethernet network.
- *Only for PROFINET, ETHERNET/IP and MODBUS TCP/IP models.*

PC XSPEED TOOL SOFTWARE

- Specific program for PC, designed to improve the performance of any weighing system.
- Customization of the weighing filter, to maximize the speed and accuracy of the weighs in static and dynamic applications.
- Graphical weighing analysis for the identification of mechanical disturbances and vibrations.

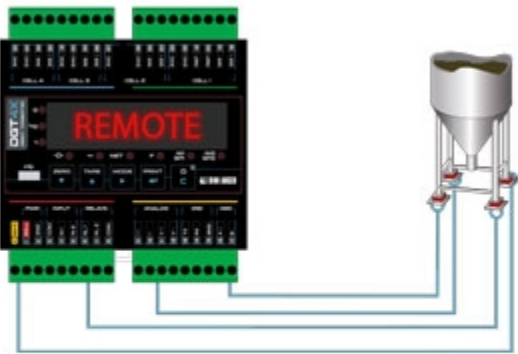


TECHNICAL FEATURES

- Power supply: 12-24Vdc
- Converter: A/D 24 bit with 4 channel
- Max scale number: 4
- Load cells connection: 4 or 6 wires (with sense)
- Operating modes:
 - Digital junction box
 - Multi-scale transmitter
 - Single-scale transmitter
- Conversion rate: up to 3200 conv./sec
- Selectable sampling rate: up to 2600 conv./sec
- Fieldbus update rate: up to 120 Hz
- Displaying: up to 800.000d
- Signal sensitivity: 0,03 $\mu\text{V/d}$ (0,3 $\mu\text{V/e}$)
- Resolution: 3.000.000 counts
- Linearization: up to 8 points
- Connectable load cells: up to 16 350 Ω cells
- Fieldbus: Profibus, Profinet, EthernetIP, EtherCAT, EthernetIP, CANopen, DeviceNet, Modbus TCP/IP.
- Serial ports:
 - 1 Micro-USB port (device) for PC configuration with "Dinitools®" and "XSpeed Tool".
 - 1 RS485 port
 - 1 RS232 port (Mod. DGT4X / DGT4XAN)
- Analog output: 16 bit (DGT4XAN Model) 4-20mA or 0-10Vdc.
- Digital outputs: n. 2 configurable OUTPUTS
- Digital inputs: n. 2 configurable INPUTS
- Certifications:
 - CE-M EN 45501
 - OIML R76 (10000e or 3000 + 3000e) / R51 / R61 MID
 - UL Listed (upon request)
 - EU Type Examination Certificate (45501:2015)
 - NMI S788 certificate
- Case: ABS, for Din bar (106 x 56 x 118 mm)
- Calibration:
 - Theoretical (mV/V)
 - With sample weights
 - Remotely by WEB SERVER
 - From the keyboard
 - From PC with "Dinitools"
- Keyboard functions:
 - Zeroing, Tare, Function mode, Manual data printing/sending, ON/Stand-by
- Program functions:
 - Setpoint, High resolution, Peak, Alibi Memory, Unit of measure conversion, Unbalancing alarm, Broken load cell exclusion
- Keyboard: mechanical with 5 keys
- Display: 14,2mm red LED

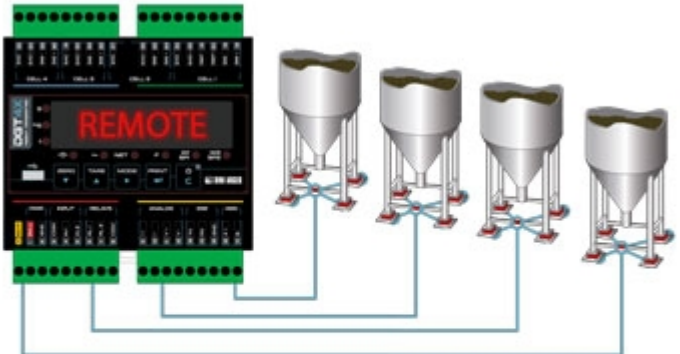
DETAIL 1

DIGITAL EQUALISATION BOX MODE



DETAIL 2

4 SCALES MODE



DETAIL 3

Home Sign out Change password Release 1.3

Product	Unit	Capacity	Weight	Unit	Status	Zero
1	508	508	0	kg	-> Lb CL INT IN2 OUT1 OUT2	Save

Unit: kg
Decimals: 0
Capacity 1: 10000
Capacity 2: 0
Division 1: 1
Division 2: 1

Calibration

Cal points: 1
Weight: 0
ADC: 2147484
Point 1: 10000
Point 2: 0
Point 3: 0

Commands

KEYBOARD LOCK
KEYBOARD UNLOCK
SCALE REBOOT
WRITE PARAMETERS
WRITE SETPOINTS

Setpoints

Setpoint 1 on
Setpoint 1 off
Setpoint 2 on
Setpoint 2 off



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COMPANY HEADQUARTERS

Via Della Fisica, 20
41042 Spezzano di Fiorano Modena - Italy
Tel. +39.0536 843418

WMS SCALES TECHNOLOGY SRL

FAGETU IERII, NR. 54 - 407321 - IARA - ROMANIA

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SALES AND TECHNICAL ASSISTANCE SERVICE