

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), Australian approval

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

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.*

XSPEED TOOL

- XSPEED Tool is the PC program for optimizing the performance of the weighing system integrated in the process and industrial automation. Through XSPEED TOOL, you can set the most suitable weighing filter for your application and create custom filters, thus maximizing the speed and accuracy of weighing in static and dynamic applications.
- Free download from the Download section.



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
- 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)
 - Australian legal for trade certificate of approval (NMI S788)
- 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

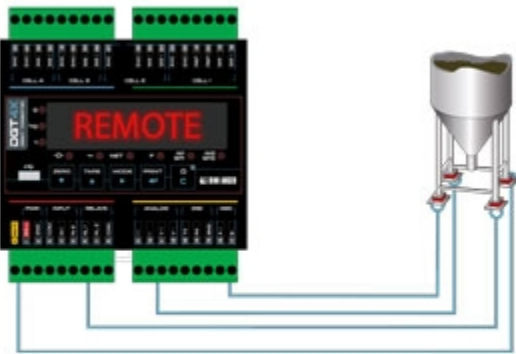
UPON REQUEST

- UL certified version

DETAIL 1



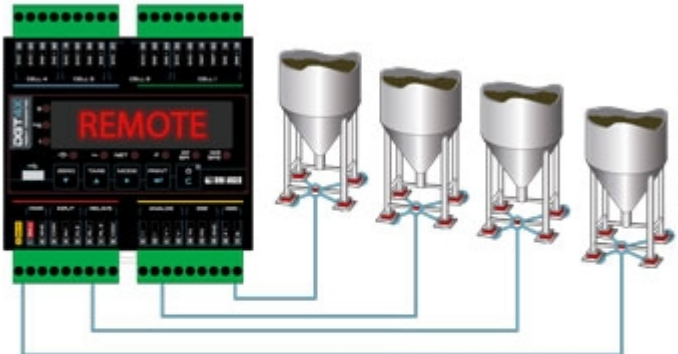
DIGITAL EQUALISATION BOX MODE



DETAIL 2



4 SCALES MODE



DETAIL 3

Home Sign out Change password Release 1.3

Feedlot	Product	SN	UNIT	Parameter	UNIT
ID	GRACIOS	NET	TARE	UNIT	STATUS
1	508	508	0	kg	->->- LB CL INT IN2 OUT11 OUT2

ADC: none

FRUITS: 13.93

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

CALIBRATION

Cal points: 1
Vweight: 0
Point 1: 10000
Point 2: 0
Point 3: 0

ADC: 2147484

COMMANDS

KEYBOARD LOCK
KEYBOARD UNLOCK
SCALE REBOOT
WRITE PARAMETERS
WRITE SETPOINTS

SETPOINTS

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



DINI ARGEO
FRANCE sarl
France

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GMBH
Germany

DINI ARGEO
UK Ltd
United Kingdom

DINI ARGEO WEIGHING
INSTRUMENTS Ltd
China

DINI ARGEO
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SALES AND TECHNICAL ASSISTANCE SERVICE