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

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

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 µV/d (0,3 µV/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)

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.*

- **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

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.

Available versions

	Code	Description
	DGT4X	High speed weight transmitter for DIN bar with 4 channels, 2 IN and 2 OUT. 5-key keypad, LED display.
	DGT4XAN	High speed weight transmitter for DIN bar with 4 channels , 2 IN, 2 OUT, analogue output. 5-key keypad, LED display.
	DGT4XPRONET	High speed 4 channel Din rail weight transmitter, with 2 IN, 2 OUT and PROFINET port. 5-key keypad, LED display.
	DGT4XPB	High speed 4 channel Din rail weight transmitter, with 2 IN, 2 OUT and Profibus port. 5-key keypad, LED display.
	DGT4XETHCAT	High speed 4 channel Din rail weight transmitter, with 2 IN, 2 OUT and EtherCAT port. 5-key keypad, LED display.
	DGT4XETHIP	High speed 4 channel Din rail weight transmitter, with 2 IN, 2 OUT and EthernetIP port. 5-key keypad, LED display.
	DGT4XDEVNET	High speed 4 channel Din rail weight transmitter, with 2 IN, 2 OUT and DeviceNet port. 5-key keypad, LED display.
	DGT4XMODTCP	High speed 4 channel Din rail weight transmitter, with 2 IN, 2 OUT and MODBUS TCP/IP port. 5-key keypad, LED display.