



DGT4X

HIGH SPEED 4 CHANNELS
WEIGHT TRANSMITTER



 **DINI ARCEO**
Scales - Weighing systems

A RICE LAKE WEIGHING SYSTEMS COMPANY



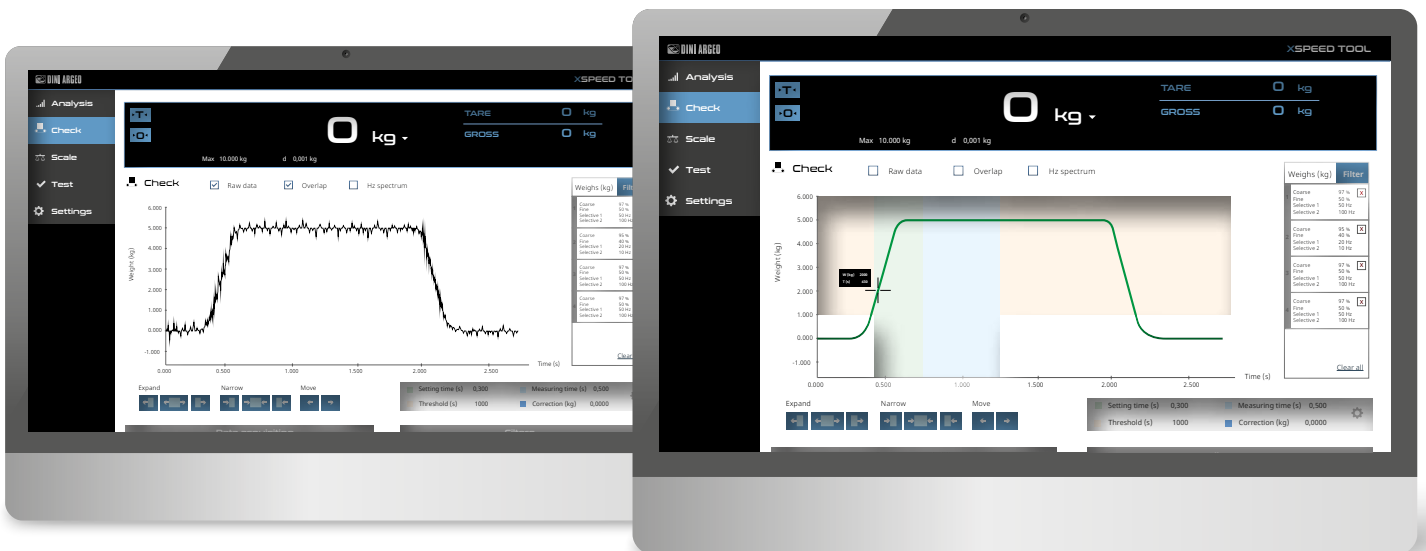
A LEAP TOWARDS THE FUTURE



EVEN FASTER, ALWAYS KEEPING UP WITH THE TIMES

The new DGT4X is a speed, performance and reliability explosion, designed for belt scales, microdosing and multiscale systems.

Serial ports, USB and built-in fieldbus complement the DGT4X series, making it the perfect solution for industrial automation weighing.



XSPED TOOL



DGT4X

SPEED THAT IMPROVES PERFORMANCE

Specific utility for PC, engineered to optimize the accuracy and performance of any weighing system.

The XSPEED tool allows users to analyse weighing results in order to identify mechanical influences or noises and set the best filtering mode in order to maximize weighing accuracy and speed.

Graphic analysis charts and easy-to-set menus allow the expert to obtain very high performance in both static and dynamic applications.



AD CONVERSION UNIT

| | |
|--|--|
| Type | 4 channels 16 bit sigma/delta |
| Conversion rate | 2600 Hz |
| Resolution | 1.000.000 points / mV/V |
| Linearity | 0,0007 % F.S. |
| Load cell power supply | 5 Vdc, up to 230 mA |
| Load cell number | 16 x 350 Ohm |
| Input voltage | 15 mV |
| Min. voltage per increment | 0,03 µV/increment |
| Maximum number of displayable increments | 1.000.000 |
| Filtering mode | <ul style="list-style-type: none"> • 8 standard filtering modes, with 28 steps of regulation • Specific filtering setting via PC with XSPEED tool, for dynamic check weighers, fast filling, dosage and fast weighing. |
| Connection | 4/6 wires |



CALIBRATION MODES

1. Electronic adjustment without calibration weight
2. Adjustment using calibration weights by keyboard
3. Adjustment using calibration weights via serial port, using Dinitools® (PC tool)
4. Digital equalisation mode by keyboard
5. Remote adjustment via Modbus/Fieldbus commands
6. Pre-adjustment (linearisation) of the weighing circuit (via Dinitools®).

Adjustment points

Up to 3 trough keyboard
Up to 8 by Dinitools®



INTEGRATED FIELDBUS (DGT4FIELDBUS version)

Available fieldbus types

PROFINET I/O
ETHERNET IP
ETHERCAT
CANOPEN
DEVICENET
PROFIBUS DP
MODBUS-TCP

Weight refresh 8 ms



RS232 SERIAL PORT (on basic or analog version only)

Protocol

ASCII
Modbus RTU / Modbus ASCII

Weight refresh Up to 0,8 ms



RS485 SERIAL PORT

Protocol

ASCII
Modbus RTU / Modbus ASCII

Weight refresh Up to 0,8 ms



DIGITAL INPUTS

| | |
|---------|---------------|
| Nr. | 2 |
| Voltage | Max 12÷48 Vdc |



DIGITAL OUTPUTS

| | |
|---------|----------------------|
| Nr. | 2 |
| Voltage | Max 48 Vac or 60 Vdc |
| Current | Max 500 mA |



POWER SUPPLY

| | |
|-------------|--------------|
| Voltage | 12 to 24 Vdc |
| Consumption | 5 W |



USB PORT

USB Device port for quick configuration via PC with Dinitools®



OTHERS

Operating conditions:

Internal Use / OIML / Humidity
-20°C...+60°C / -10°C... +40°C /
max 85% RH, non-condensing

Housing

ABS - Standard Din Rail mounting

Dimensions

106x56x118 mm

Display

14,2 mm (0,56") red LED display

Keyboard

5 keys "easy push" mechanical keyboard



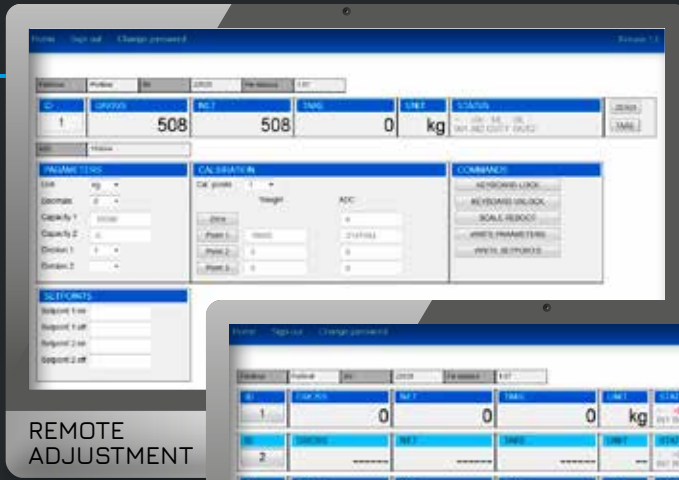
ANALOG OUTPUT (DGT4AN version)

4...20 mA
0...10 V
0...20 mA
0...5 V
16 bit internal resolution
Analog output refresh: up to 0,3 ms

INTEGRATED WEB SERVER

for PROFINET, ETHERNET IP and MODBUS TCP

Using the integrated Web Server, you can communicate remotely and fully diagnose/calibrate the DGT4X transmitter.



REMOTE ADJUSTMENT



DIAGNOSTIC MENU



APPROVALS



Standard OIML R76 - R51 - R61

Upon request

The UL mark is the most widely recognized and accepted evidence of the product conformity with the US and Canadian safety requirements.



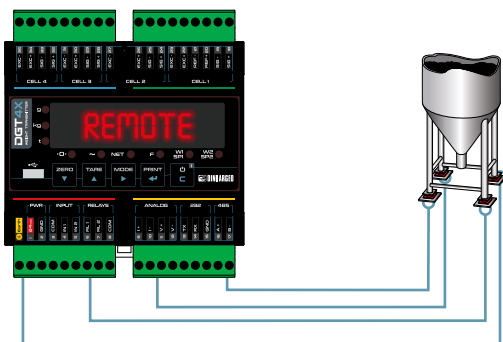
Dini Argeo obtained the **UL Listing certification** mark for its products to allow an easier integration in any UL certified plant, without any further certification.

DGT4X is available in UL version for the US and Canadian market.



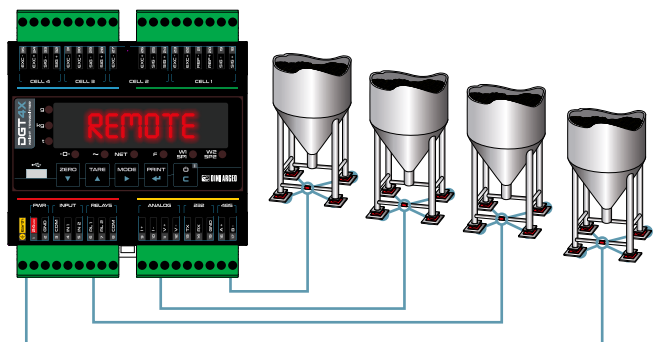
DIGITAL EQUALISATION BOX MODE


Transmitter manages up to 4 load cells (1 scale), as a junction box or equalisation box. All data and adjustments are available on fieldbus.



4 SCALES MODE

Transmitter manages up to 4 scales. All data and adjustments of each scale are available on fieldbus side.





Dini Argeo dealer network:
over 3500 partners
in more than 85 countries across the world

“YOUR WORLDWIDE PARTNER
FOR WEIGHING”



A RICE LAKE WEIGHING SYSTEMS COMPANY

COMPANY HEADQUARTERS

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

SERVICE ASSISTANCE

Via Dell'Elettronica, 15
41042 Spezzano di Fiorano Modena • Italy
Tel. +39.0536 921784

OTHER DINI ARGEO LOCATIONS

DINI ARGEO WEIGHING INSTRUMENTS Ltd
China

DINI ARGEO UK Ltd
United Kingdom

DINI ARGEO FRANCE sarl
France

DINI ARGEO GMBH
Germany

SALES AND TECHNICAL ASSISTANCE SERVICE

DGT4X2002V1_NEN

