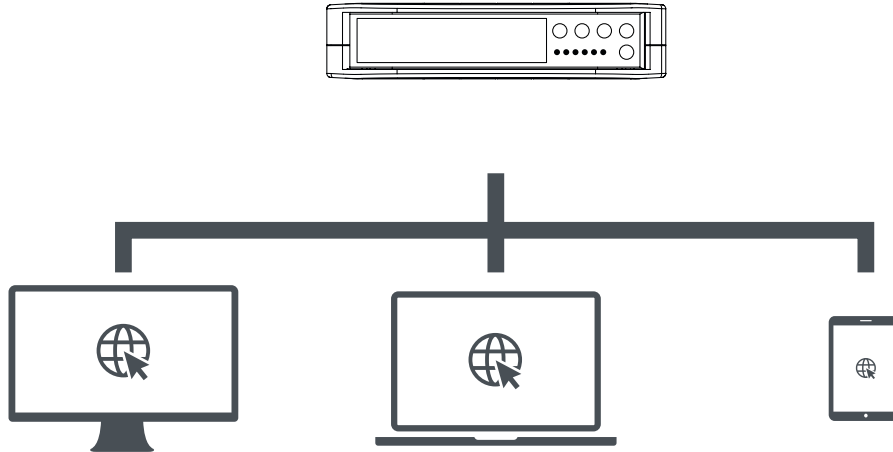


WEBSERVER

USER MANUAL

ENGLISH

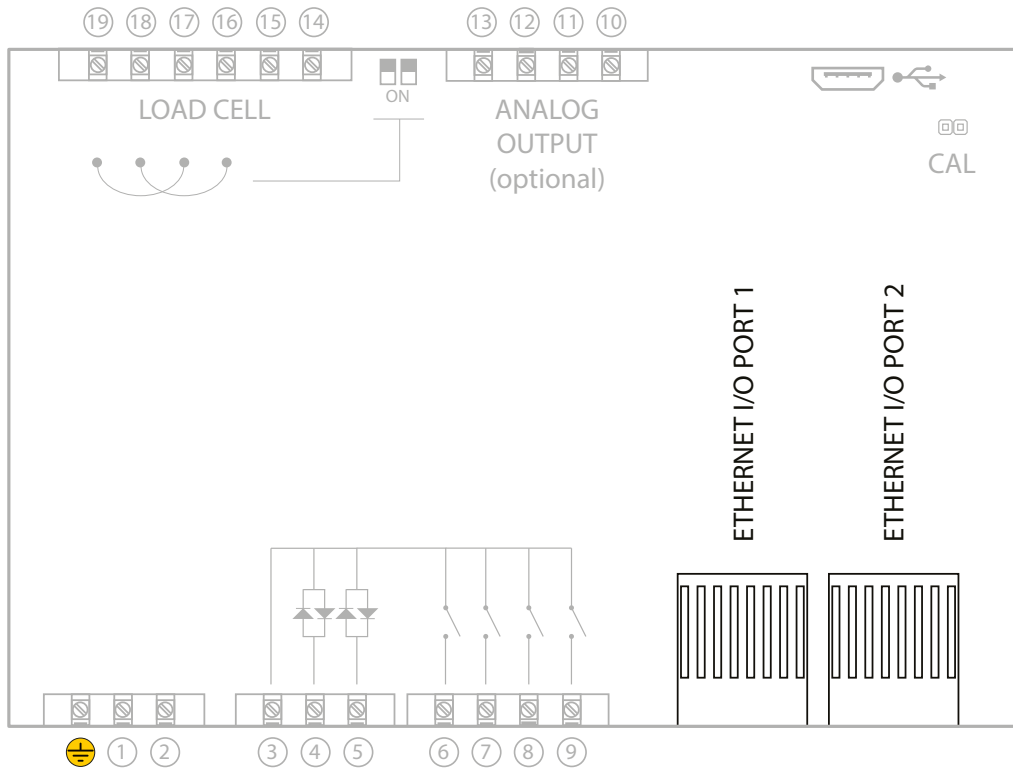


For DGT1SX-ETHIP, DGT1SX-PRONET, DGT1SX-MODTCP,
DGT1SP-ETHIP, DGT1SP-PRONET, DGT1SP-MODTCP models

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Network connection

Connect the instrument to the network using the available Ethernet ports:



i The Web Server is only available for **DGT1SX-ETHIP**, **DGT1SX-PRONET**, **DGT1SX-MODTCP** models.

Network parameters

Use the **Fieldbus Settings** procedure in the instrument's Quick Start Guide to configure the IP address, subnet mask and gateway of the instrument.

In most applications it is sufficient to set the IP address of the instrument to the same network ID as the PC. Ensure the configured device ID is not used by another device on the network.

i For advanced configuration, contact your network administrator.

Web page login

Type the IP address of the instrument into a web browser. If the instrument has been configured correctly, the login window displays:

Ethernet/IP module

SN

 Read Only

Warning: signing in with read only unchecked will prevent
Fieldbus master to send commands to indicator
until sign out

Enter the password "00000" and sign in.



Once you logged in, it is possible to change the password (**Change password**).

In case of lost password contact Dini Argeo for the recovery.



Only one PC is allowed to access the instrument's web page at a time, so if you login from a second PC, the first one will be automatically disconnected.



Logging into the instrument with Read Only disabled interrupts the communication with the PLC.

When Read Only is enabled, the following features are restricted: accessing load cells, Calibration, Operative mode and Indicator reboot.

Dependent / independent channels mode (single scale)

The screenshot shows the main screen of a scale's web interface. At the top is a navigation bar with the following items: Home (1), Operative Mode (2), Network configuration (3), Backup/Restore (4), Change password (5), Indicator reboot (6), Sign out, and Release 8.0. Below the navigation bar is a status bar showing: Fieldbus Ethernet/IP, SN 22625, Fw release 1.121, Ind. SN 25145725. The main display area is divided into several sections:

- 7**: A table showing scale data:

ID	GROSS	NET	TARE	UNIT	STATUS
1	508	508	0	kg	~ >0< UL OL IN1 IN2 OUT1 OUT2
- 8**: ZERO and TARE buttons.
- 9**: A numeric input field for the weight value (508).
- 10**: ADC 123456.
- 11**: PARAMETERS section with fields for Unit (kg), Decimals (0), Capacity 1 (10000), Capacity 2 (0), Division 1 (1), and Division 2.
- 12**: CALIBRATION section with a dropdown for Cal. points (1), checkboxes for By indicator and Check stability, and a table for calibration points:

	Weight	ADC	mV/V
Zero		0	0
Point 1	10000	2147484	1.78348
Point 2	0	0	0
Point 3	0	0	0
- 13**: COMMANDS section with buttons: WRITE PARAMETERS, ABORT CALIBRATION, END CALIBRATION, ZERO CALIBRATION, and THEOR. CALIB. (14).
- 15**: FILTER section with fields for FILTER (F6), RATE (200), PARAM. 1 (30), PARAM. 2 (16), and PARAM. 3 (2).

1 Operating mode

Not available for DGT1SX / DGT1SP models.

2 Network configuration

You can change the network parameters and the displayed data format:

- IP address, Subnet mask, Gateway (enable "Auto config." for DHCP).
- Byte order: Big endian / Little endian.
- Data format: Unsigned integer / Signed integer / Float.
- Profinet name: up to 16 characters (only DGT1SX-PRONET or DGT1SP-PRONET)

Ethernet/IP module SN
22625

Password

Auto config.

IP address

Subnet mask

Gateway

Byte order

Data format

Name of Station

i Changing the parameters will disconnect the transmitter. To reconnect, you must enter the new IP address in the web browser.

(only DGT1SX-PRONET or DGT1SP-PRONET)

3 Backup/Restore

Select "**Backup Configuration**" to start receiving the instrument configuration in the web browser.

When reception is complete, the "**setup.mot**" file is automatically downloaded. This file is compatible with the Dinitools program.

Select "**Restore Configuration**" to choose a configuration file to load on the instrument.

WARNING: the configuration file must have ".mot" extension.

Ethernet/IP module SN
22625

Password

4 Change password

To change an account's password:

- Enter your old password.
- Enter new password and then confirm.
- Select Change password to complete the procedure.

Ethernet/IP module SN
22625

5 Indicator Reboot

Restarts the indicator.

6 Sign out

Signs out from the instrument's web page.

7 Instrument information

Shows the weight and status information of the scale:

ID	Scale identification number.
GROSS	Gross weight
NET	Net weight
TARE	Tare
UNIT	Unit of measure
STATUS	Instrument status ~ Unstable weight >0< Gross weight equal to zero UL Underload OL Overload IN1 Input 1 active IN2 Input 2 active OUT1 Output 1 active OUT2 Output 2 active

8 Zero

Zeros the instrument.

WARNING: the zero execution takes place only if the necessary conditions are met (zero parameters).

9 Tare

Performs a tare on the instrument.

To clear an active tare, you must perform a new tare when the scale is empty.

10 A/D Convesion points

Displays the analog to digital conversion points.

11 Calibration parameters

Sets the scale calibration parameters:

Unit	Unit of measure (g, kg, t, lb)
Decimals	Number of decimal digits (0, 1, 2, 3)
Capacity 1	First range value (or full capacity for single range applications)
Capacity 2	Second range value (not used in single range applications)
Division 1	First range division (1, 2, 5, 10, 20, 50)
Division 2	Second range division (1, 2, 5, 10, 20, 50)

12 Calibration

NOTE: When By indicator is enabled, calibration uses the indicator settings. When By indicator is disabled, it uses the settings on the web server.

By Indicator Calibration (By Indicator is Enabled)

1. Enable the By indicator checkbox.
2. In the Parameters menu, set Unit, Decimals, Capacity, and Division parameters.
3. In the Calibration menu, set the number of calibration points and then enter their weight values in the corresponding Weight text boxes.
4. Select **WRITE PARAMETERS** to send to parameters to the indicator (units, decimals, capacities, divisions, number of calibration points and sample weights).
5. Unload the scale and then select Zero.
6. Load the platform with sample weight 1 and select Point 1. The value of ADC points is automatically acquired in the text box on the right. If you know the ADC point value, it can be entered manually.
7. Repeat 5 and 6 for the remaining calibration points. The weight and ADC point values must increase with each calibration point.
8. Select **END CALIBRATION** to save the calibration.

Web Server Calibration (By Indicator is Disabled)

1. Disable the By indicator checkbox.
2. In the Parameters menu, set Unit, Decimals, Capacity, and Division parameters.
3. In the Calibration menu, set the number of calibration points and then enter their weight values in the corresponding Weight text boxes.
4. Unload the scale and then select Zero.
5. Load the platform with sample weight 1 and select Point 1. The value of ADC points is automatically acquired in the text box on the right. If you know the ADC point value, it can be entered manually.
6. Repeat 4 and 5 for the remaining calibration points. The weight and ADC point values must increase with each calibration point:
7. Select **WRITE PARAMETERS** to save all parameters on the indicator.



If the weight and/or ADC values are not increasing (Case 2), only point 1 will be considered.

If "Check stability" is active, the calibration points are only acquired if the weight is stable.

Case 1

CALIBRATION			
Cal. points	1	<input checked="" type="checkbox"/> By indicator	<input checked="" type="checkbox"/> Check stability
	Weight	ADC	mV/V
Zero		0	0
Point 1	2000	647484	0.22491
Point 2	4000	1292501	0.78523
Point 3	10000	30741680	1.89348

Case 2

CALIBRATION			
Cal. points	1	<input checked="" type="checkbox"/> By indicator	<input checked="" type="checkbox"/> Check stability
	Weight	ADC	mV/V
Zero		0	0
Point 1	2000	647484	0.22491
Point 2	10000	30741680	1.89348
Point 3	4000	1292501	0.78523

13 Commands

WRITE PARAMETERS	Saves parameters to the indicator.
ABORT CALIBRATION	Cancels calibration without saving.
END CALIBRATION	After acquisition sequence ends calibration and saves values on indicator. NOTE Only used when the By indicator checkbox is enabled.
ZERO CALIBRATION	Pre-Tare Reset
THOER. CALIBRATION	Theoretical calibration: By entering the weight and mV/V value of the cells the relative ADC points are calculated. .

14 Theoretical calibration

1. Enter the value 0 in the zero mV/V box.
2. Enter in the mV/V box related to point 1, the cell sensitivity value. If there are more load cells connected, enter the average value.
3. Enter in the weight box the load cell capacity. If there are more load cells connected, enter the total capacity.
4. Calculate ADC points by clicking .

15 Filter

Filter	Configures filter (F1, F2, F3, F4, F5, F6, F7 or Custom). For more information, see instrument's operation manual.
Rate	Configures the number of analog to digital conversions (6-4800) per second that is performed by the analog to digital converter.
Param. 1	Configures the length of the average window (quantity of ADC points). For example, a value of 8 indicates 8 ADC points will be used for the average window.
Param. 2	Removes ADC points from the average window in beginning or ending positions. For example, a value of 2 indicates the 2 outermost values will be removed from the list. In the list: 10, 20, 30 and 40; 10 and 40 are removed.
Param. 3	Removes the center most ADC points from average computations. For example, a value of 2 indicates the 2 center most values are removed from the list. In the list: 10, 20, 30 and 40; 20 and 30 are removed.



Parameter (Param.) values must meet the following the criteria:

- All parameters values must be even numbers
- Param. 2 must be less than or equal to param. 1 and greater than zero
- Param. 3 must be in the range zero to param. 2 - 2

Configure the following parameters to disable filtering:

- Param. 1 = 1
- Param. 2 = 0
- Param. 3 = 0

Notes

This publication, or portions thereof, may not be duplicated without written permission from the Manufacturer. All information contained in this manual is based on the data available at the time of its publication; the Manufacturer reserves the right to make changes to its products at any time without notice and without incurring any penalty. We therefore recommend that you always check for any updates.

The individual in charge of the scale operation must ensure that all safety regulations in force in the country of use are applied, ensuring that the appliance is used in accordance with the purpose it is intended for and to avoid any danger for the user.

The Manufacturer declines any liability arising from any weighing operation errors.





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HEAD OFFICE

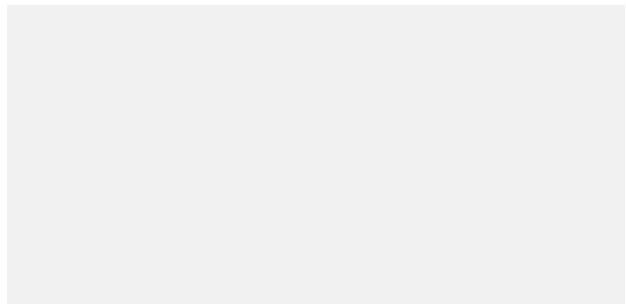
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Authorized service center stamp



The information in this document is approximate and can be subject to variations without prior notice by Dini Argeo, in compliance with the norms in force. The official technical data are available in the updated version on the following website www.diniargeo.com or by contacting Dini Argeo Customer Service.

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