CONNECTION SCHEMES

DGT1S

- **VE 12 / 24 Vdc POWER SUPPLY**
- **1. GND**   0 Vdc (GND)
- **2. +Vdc**   +12 / 24 Vdc

- **LOAD CELL RECEPTORS**

CELL:
- **11. *SIG+***   SIGNAL +
- **12. *SIG-***   SIGNAL -
- **13. *SEN+***   SENSE +
- **14. *SEN-***   SENSE -
- **15. *EXC+***   EXCITATION +
- **16. *EXC-***   EXCITATION -

- **INPUTS AND OUTPUTS**

Optoisolated Inputs positive logic (12÷24Vdc, 5 ÷ 20mA max):
- **6. IN1**   input 1
- **7. IN2**   input 2

Inputs common is normally connected to Ground.

Outputs (48Vac or 60Vdc, 150mA max):
- **3. OUT1**   output 1
- **4. OUT2**   output 2
- **5. COMOUT**   outputs common

- **SERIAL PORT**

RS 485
RJ-IN   485 Line
RJ-OUT 485 Line
Pin 4 = A(+) , Pin5 = B(-)

RS 232
- **8. *TX***   Transmission
- **9. *RX***   Reception
- **10. *GND***   GND

Connection_Schemes_DGT1S_V1

DGT1SAN
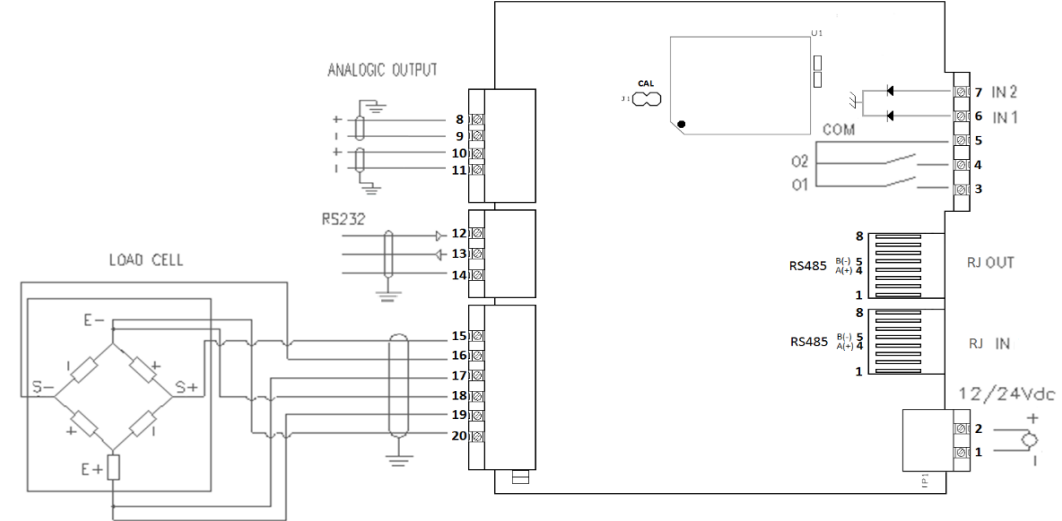
- **VE 12 / 24 Vdc POWER SUPPLY**
- **1. GND**   0 Vdc (GND)
- **2. +Vdc**   +12 / 24 Vdc

- **LOAD CELL RECEPTORS**

CELL:
- **15. *SIG+***   SIGNAL +
- **16. *SIG-***   SIGNAL -
- **17. *SEN+***   SENSE +
- **18. *SEN-***   SENSE -
- **19. *EXC+***   EXCITATION +
- **20. *EXC-***   EXCITATION -

- **ANALOGUE OUTPUT**

On current:	*On voltage:*
10. *I+* + 20 mA	**8. *V+*** + 10 V
11. *I-* 0 mA (GND)	**9. *V-*** 0 V (GND)

Note: the maximum resistance applicable on the output current is 350 Ω and the minimum resistance applicable on the output voltage is 10 kΩ.

- **INPUTS AND OUTPUTS**

Optoisolated Inputs positive logic (12÷24Vdc, 5 ÷ 20mA max):
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- **SERIAL PORT**

RS 485
RJ-IN   485 Line
RJ-OUT 485 Line
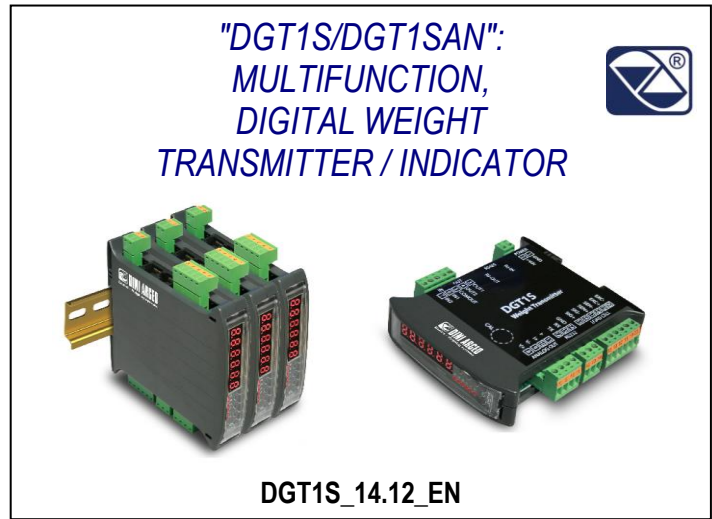Pin 4 = A(+) , Pin5 = B(-)

RS 232
- **12. *TX***   Transmission
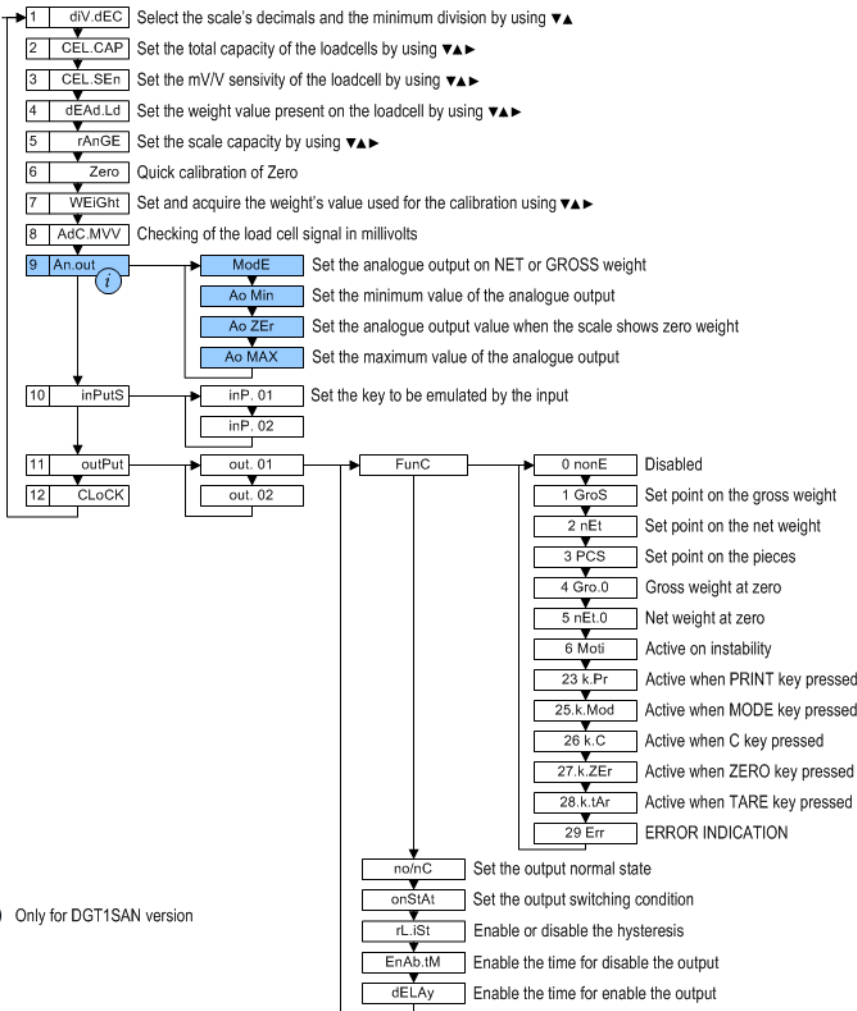- **13. *RX***   Reception
- **14. *GND***   GND

SIMPLIFIED SETUP MENU

To enter it, turn on the instrument and, while the firmware version is displayed , press the MODE key for an instant.

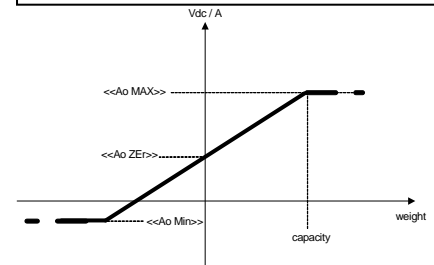| KEY	FUNCTION
ZERO ↓	- In <u>NUMERIC INPUT</u>: decreases the digit to be modified. - In <u>SETUP</u>: scroll down the functions.
TARE ↑	- In <u>NUMERIC INPUT</u>: increases the digit to be modified. - In <u>SETUP</u>: scroll up the functions.
MODE →	- In <u>NUMERIC INPUT</u>: selects the digit to be modified, from left to right.
PRINT ↵	- In <u>NUMERIC INPUT</u>: confirms the entry made. - In <u>SETUP</u>: allows to enter a step or to confirm a parameter inside a step.
C ON/Stb	- <u>ON</u> / <u>STANDBY</u> of the instrument. - In <u>NUMERIC INPUT</u>: quickly clears the present value. - In <u>SETUP</u>: allows to exit a step without confirming the modification

MODE →

1	diV.dEC	Select the scale's decimals and the minimum division by using ▼▲
2	CEL.CAP	Set the total capacity of the loadcells by using ▼▲►
3	CEL.SEn	Set the mV/V sensivity of the loadcell by using ▼▲►
4	dEAd.Ld	Set the weight value present on the loadcell by using ▼▲►
5	rAnGE	Set the scale capacity by using ▼▲►
6	Zero	Quick calibration of Zero
7	WEiGht	Set and acquire the weight's value used for the calibration using ▼▲►
8	AdC.MVV	Checking of the load cell signal in millivolts
9	An.out ⓘ	

- ModE — Set the analogue output on NET or GROSS weight
- Ao Min — Set the minimum value of the analogue output
- Ao ZEr — Set the analogue output value when the scale shows zero weight
- Ao MAX — Set the maximum value of the analogue output

10	inPutS
	inP. 01 — Set the key to be emulated by the input
	inP. 02

11	outPut
	out. 01
12	CLoCK
	out. 02

FunC

0 nonE	Disabled
1 GroS	Set point on the gross weight
2 nEt	Set point on the net weight
3 PCS	Set point on the pieces
4 Gro.0	Gross weight at zero
5 nEt.0	Net weight at zero
6 Moti	Active on instability
23 k.Pr	Active when PRINT key pressed
25.k.Mod	Active when MODE key pressed
26 k.C	Active when C key pressed
27.k.ZEr	Active when ZERO key pressed
28.k.tAr	Active when TARE key pressed
29 Err	ERROR INDICATION

no/nC	Set the output normal state
onStAt	Set the output switching condition
rL.iSt	Enable or disable the hysteresis
EnAb.tM	Enable the time for disable the output
dELAy	Enable the time for enable the output

ⓘ Only for DGT1SAN version

ANALOG OUTPUT'S GRAPHIC

SETPOINT VALUE PROGRAMMING

In weighing mode, by pressing the **PRINT** key at length one directly enters the SETPOINT VALUE PROGRAMMING. Here it is possible to set setpoint value.

"DEMO MODE" CALIBRATION	THEORETICAL CALIBRATION PROCEDURE	CALIBRATION PROCEDURE WITH WEIGHT
The instrument has a default calibration. This calibration has the follows features: - capacity: 10.000kg; - loadcell sensitivity: 2.000mV/V; - division: 1.	With the steps 1,2,3,4, of the Simplified Setup Menu is possible to make a theoretical calibration.	With the steps 1,5,6,7, of the Simplified Setup Menu is possible to make a standard calibration with a sample weight.
	Now press C key. The display will show **SAVE?** so press PRINT key to exit and save the changes or press C key for exit without save.	

Note:

All function modes and the complete setup environment are described in the user and the technical DGT manuals, available from your dealer.