VD4 Vcc

PANEL DIGITAL READOUT
INPUT BY DIRECT VOLTAGES

OPERATING MANUAL

Digital readouts series **VD4 Vcc** accept as input direct voltage signals with a value proportional to the measure to be displayed. The value of the displayed magnitude can be adjusted between –9999 and 9999.
In case of values beneath –999 the minus sign is indicated by a dot placed on the right side of the less significative digit.
The default display mode is **absolute**. The **absolute/relative** display mode can be enabled by the menu SETUP (selecting mode: REL)

TECHNICAL SPECIFICATIONS:

Supply	24 Vac or 115/230 Vac ±10% 50/60 Hz 12/24Vdc ±15%* (see the supply label)
Power consumption	4 VA max (version 24/115/230 Vac) 2.5/5 Watt (version 12/24Vdc)
Display type	4-digit 7-segment LED display 12.7 mm high
Data and preset storing	on FLASH memory
Display range	-9999 / 9999
Decimal digits	settable: 0, 1 ,2 or 3
Operating temperature	0 ÷ 45 °C
Panel cut off	91 x 44 mm
Input voltage	±2Vdc, ±20Vdc, ±200Vdc max (see the connection diagram)
Input specifications	resolution 4000 steps, accuracy 0.2% full scale range
A/D conversion	140 per sec.
Front case protection degree	IP54

***Remark:** In case of direct current supply the negative pole of the supply voltage (terminal 1) is connected to O Vdc of the input circuit (terminal 7).

OPERATING DESCRIPTION

At power on the instrument displays the software version identification for one second: **T-XX**-, where XX is the number of the loaded software; afterwards the displays switches to the *main display page*.

SETUP PHASE

The *SETUP phase i*s accessed by the following *key sequence*: press the key ***F*** for 3 seconds and, when the display shows: **SET**, enter the following *access key*: ***UP ARROW, F, UP ARROW, UP ARROW, F***.
If the access key is not entered within 10 seconds the instrument switches back to the main display page.
The SETUP menu includes the following items, which can be scrolled down by the key ***F:***

tAr	(Adjusting)	Default: 0 / 4000
n.dEC	(Decimal digits)	Default: 0

KEYS FUNCTION:

UP ARROW increases the value
DOWN ARROW decreases the value
F stores the value and leaves the set phase

ADJUSTING PHASE

The adjusting phase allows to set the min. and max. values that must be displayed according to the relevant input voltages.

Press one of the ***ARROW KEYS*** when the display shows **TAR;** the message **LO** (zero adjusting) will be shown. Make sure the the input voltage is at its minimum value and set the wished value by means of the ***ARROW KEYS***, then confirm the setting by the key ***F***.
Following the display will show **Hi** (max value adjusting):**make sure that the input voltage is at is max.value** and set the wished value by means of the ***ARROW KEYS***, then confirm the value by the key ***F*** and switch to the next setting.
In case the adjusting operation fails, the display will show **Er.tA** (adjusting error). In this case it is advisable to check that the value set as max. is greater than the min.setting, and that connections are correct.

DECIMAL DIGITS SETTING

When the display shows **n.dEC** (number of decimal digits) press the ***DOWN ARROW*** key sequentially to scroll 0, 1, 2, 3 decimal digit. Press the key ***F*** to store the choice.

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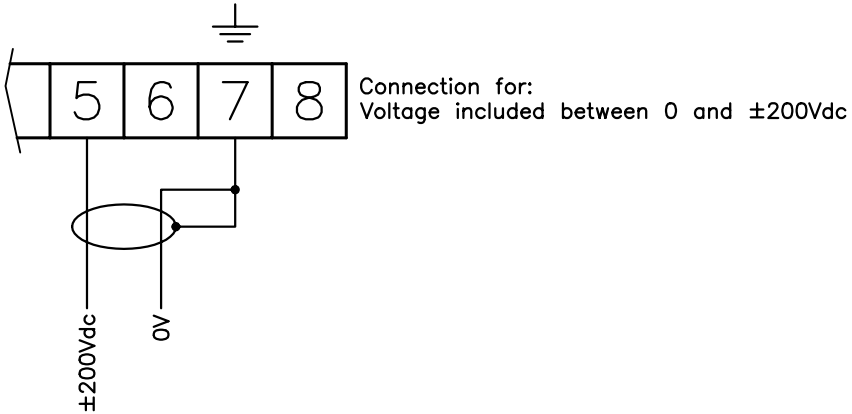
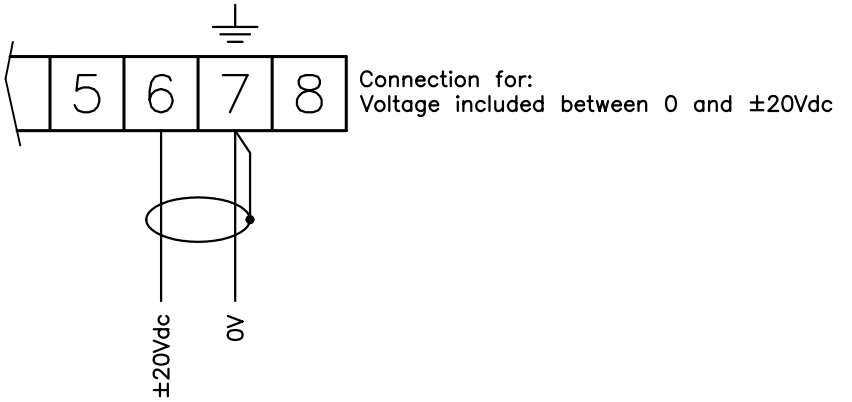
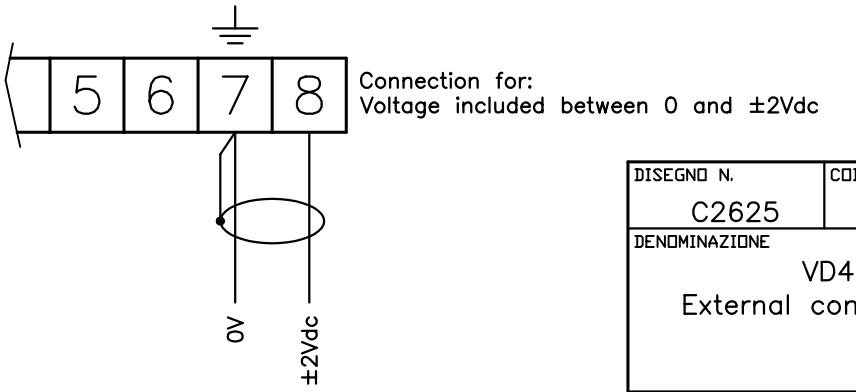


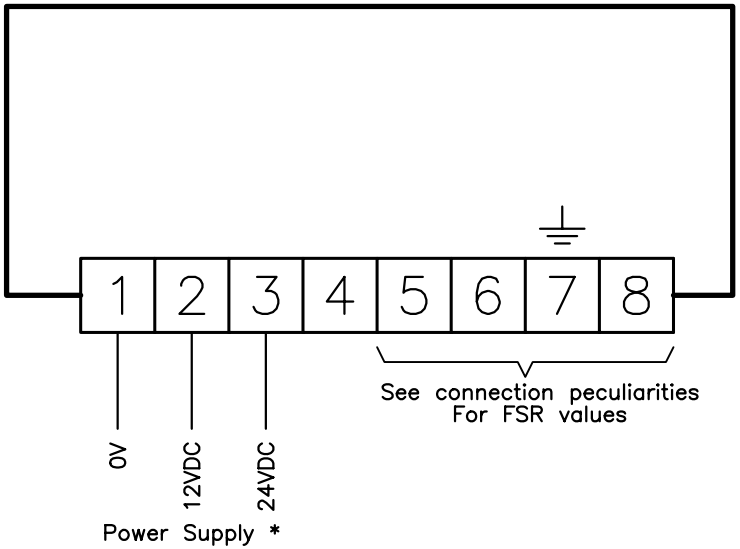
Connection for:
Voltage included between 0 and ±200Vdc



Connection for:
Voltage included between 0 and ±20Vdc



Connection for:
Voltage included between 0 and ±2Vdc



* REMARK: 0V supply voltage (terminal 1) is connected to circuit 0V (terminal 7)

DISEGNO N.	CODICE	SCALA	FOGLIO	SOSTITUITO DA	DATA	FIRMA	DISEGNATO	DATA	SOFTWARE
C2625			1 di 1				T.R.	16.12.04	

DENOMINAZIONE	TOLL.	MATER.	SOSTITUISCE	DATA	FIRMA	VISTO	FILE
VD4 External connections							C2625.DWG

NOTE	MODIFICHE	DESCRIZIONE	DATA	FIRMA
Version VDC A4		Power supply	14.7.05	JR
CLIENTE				

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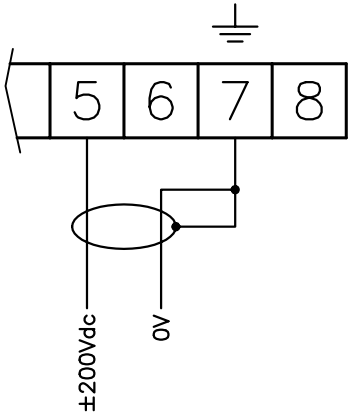
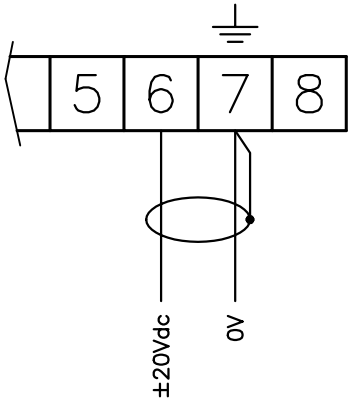
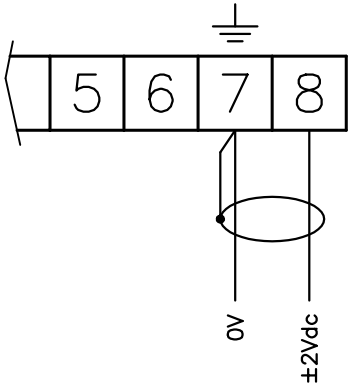


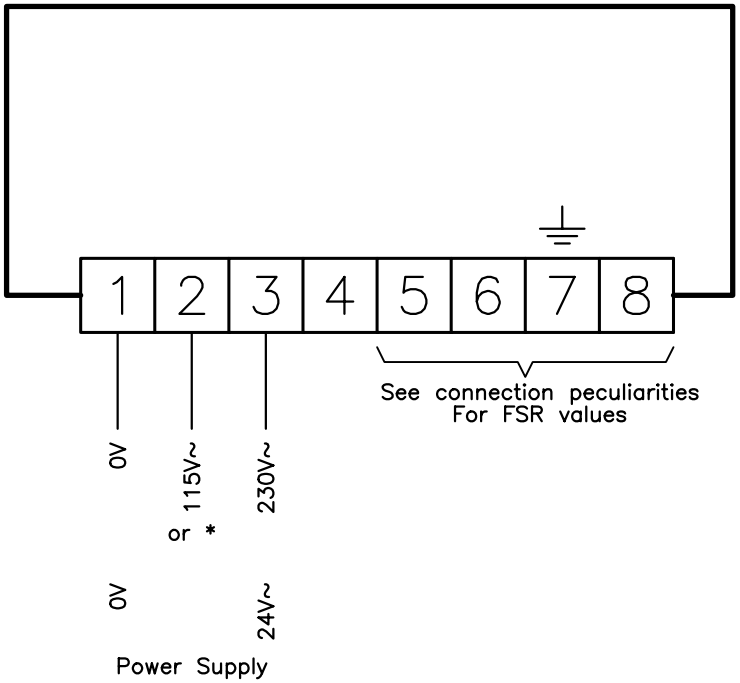
Connection for:
Voltage included between 0 and ±200Vdc



Connection for:
Voltage included between 0 and ±20Vdc



Connection for:
Voltage included between 0 and ±2Vdc



* See the instrument supply label

DISEGNO N.	CODICE	SCALA	FOGLIO	SOSTITUITO DA	DATA	FIRMA	DISEGNATO	DATA	SOFTWARE
C2624			1 di 1				T.R.	16.12.04	

DENOMINAZIONE	TOLL.	MATER.	SOSTITUISCE	DATA	FIRMA	VISTO	FILE
VD4 External connections							C2624.DWG

NOTE	MODIFICHE	DESCRIZIONE	DATA	FIRMA
Version VDC		Power supply	14.7.05	JR
CLIENTE				

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