

VD4 LQ

PANEL DIGITAL READOUT ABSOLUTE/RELATIVE DISPLAY INPUT BY POTENTIOMETER

Digital readouts series **VD4 LQ** can be coupled to linear and rotary potentiometers with resistive value ranging between 1 and 20 Kohm. 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**).

OPERATING DESCRIPTION

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

SET VALUE LOADING (for mode selection: REL)

Press the key **F** for one second to switch from the main display page to the *set value loading*; the display will show the flashing message **LOAD**. Press the **DOWN ARROW** key to load the set value; any other key cancels the operation.

This operation sets the display value at the **LOAD** value entered in the **SETUP** menu, thus switching to the **relative** display mode. The **relative** mode is kept even in case of instrument switching off.

SWITCHING BACK TO THE ABSOLUTE DISPLAY MODE (For selection mode: REL only)

From the main display page, press the key **F** for three seconds: the display will show: **SET**.

Switching back to the main display resets the display ranges set in the starting adjusting, thus the obtained reading is *absolute*. The operation cannot be cancelled.

Press the key **F** five-folds to switch back to the main display page.

KEYS FUNCTION

DOWN ARROW decreases the value

UP ARROW increases the value

F stores the value and quits the setting

TECHNICAL SPECIFICATIONS:

Supply

24 Vac or 115/230 Vac ±10% 50/60 Hz

12/24Vdc ±10%* (see the supply label)

4 VA max (version 24/115/230 Vac)

2.5 Watt (version 12Vdc)

5 Watt (version 24Vdc)

Power consumption

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

Transducer supply voltage provided by the instrument

5Vdc 5mA max

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 0 Vdc of the input circuit (terminal 7).

SETUP PHASE

The *SETUP phase* is 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
AbS/rEL	(Absolute/relative display mode)	Default: AbS
LOAD	(LOAD value**)	Default: 0

**In case of relative display mode only

ADJUSTING PHASE

The adjusting phase allows to set the min. and max. values that must be displayed according to the respective positions of the input potentiometer.

Press one of the **ARROW KEYS** when the display shows **TAR**; the message **LO** (zero adjusting) will be shown. Now it is necessary to **position the potentiometer at the stroke starting point** 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): **place the potentiometer at the stroke ending** 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. In case the values previously entered as preselections exceed the adjusting limit values, the preselection value is replaced with the min.adjusting value.

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.

ABSOLUTE/RELATIVE DISPLAY MODE

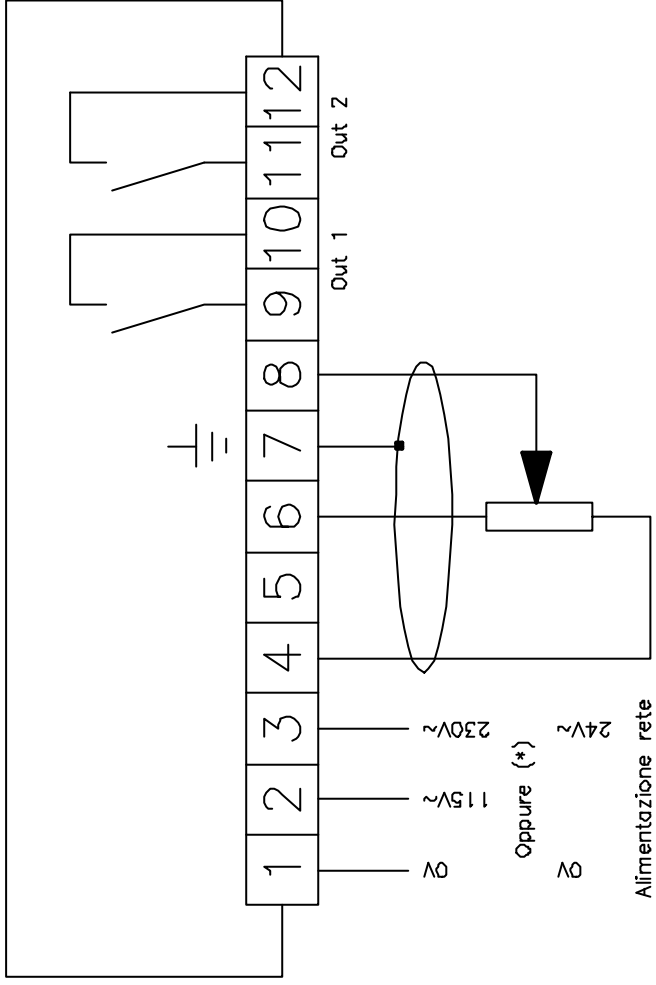
When the display shows **AbS** (absolute mode) press the **DOWN ARROW** key to switch to **rEL** (relative mode) and vice-versa. Press the key **F** to store the choice.

LOAD (for display mode rEL only)

It is the value at which the display value is set after the LOAD setting operation.

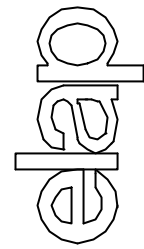
When the display shows **LOAD** press the **ARROW KEYS** to set the value and the key **F** to confirm it.

Settable values: -9999 to 9999.



* Vedi targhetta immatricolazione strumento

DISGNO N C2577	SCALA	FOGLIO 1 di 1	SOSTITUITO DA	DATA	FIRMA	DISGNATO	DATA	SOFTWARE
DENOMINAZIONE Collegamenti esterni	TOLL.	MATER.	SOSTITUISCE	DATA	FIRMA	VISTO	FILE	C2577.DWG
NOTE Versione LQ 2R	DESCRIZIONE			DATA	FIRMA			
CLIENTE	MODIFICHE			DATA	FIRMA			
				DATA	FIRMA			
				DATA	FIRMA			
				DATA	FIRMA			
				DATA	FIRMA			
				DATA	FIRMA			
				DATA	FIRMA			
				DATA	FIRMA			



VIA VITTORIO VENETO, 4
20094 CORSICO (Milano)
TEL. 02.4319561 FAX. 02.43103406