

VRI10-I

4-20 mA REMOTE INDICATOR AND TOTALIZER



- ✓ Accuracy
± 0,2% of Calibrated Span
- ✓ 4 – 20 mA Loop Power
- ✓ 1 or 2 Channels
- ✓ Copy Function of Settings from a Channel to the other
- ✓ Configuration via Local Adjustment by Magnetic Tool
- ✓ Low Power
- ✓ Open Loop Self-Diagnosis
- ✓ Linear and Square Root Function
- ✓ Units of Pressure, Temperature, Flow, Level, Density and User Configuration
- ✓ Five Digits, Rotary, Multifunctional with Bargraph LCD
- ✓ Factory Restore
- ✓ Operation Temperature
-40 °C to 85 °C

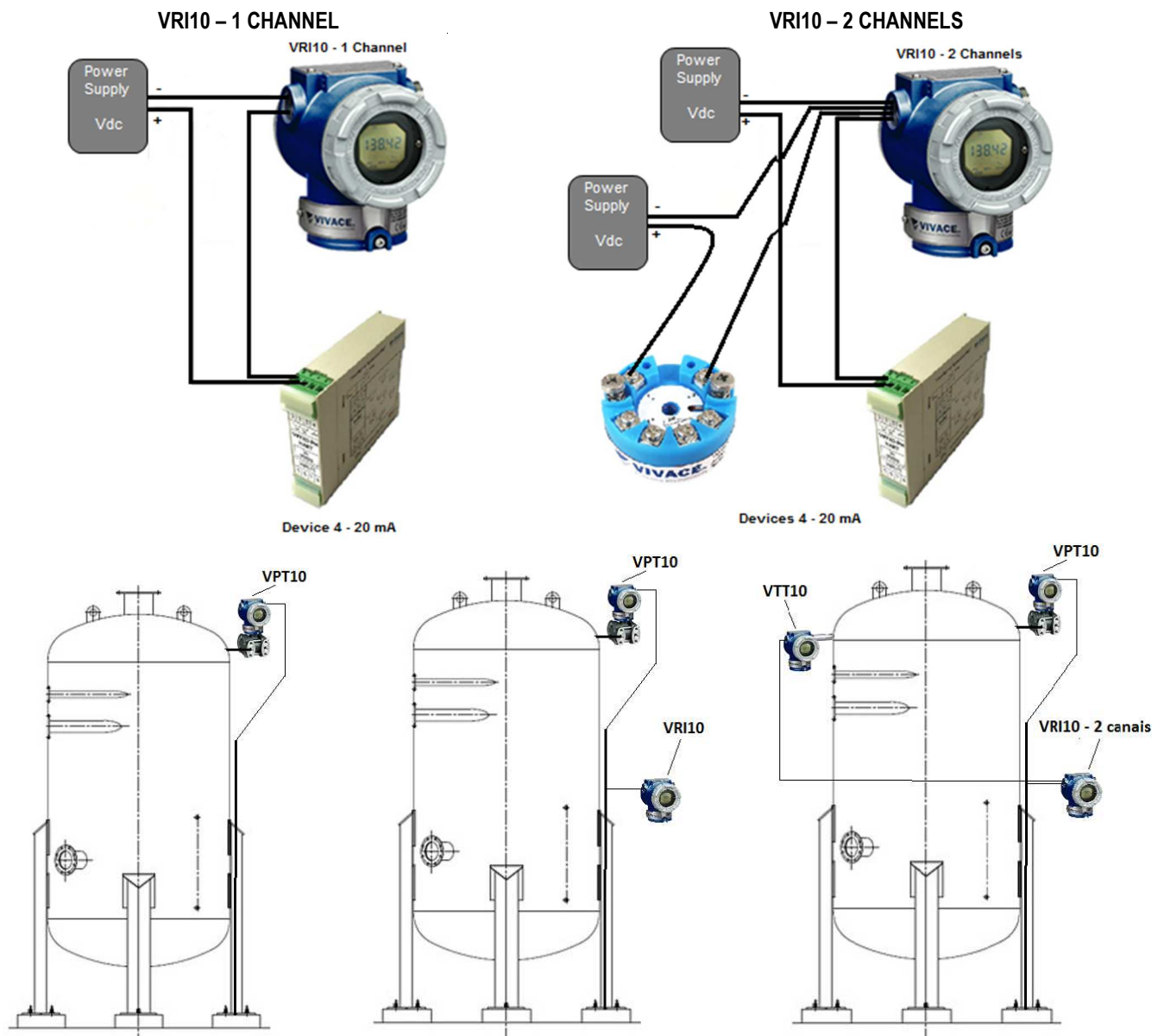
DESCRIPTION

VRI10-I is 4 – 20 mA Remote Indicator of two-channels suitable for working with any equipment 4 to 20 mA that need remote indication of the measured variable. So equipment that do not have LCD display, are installed in area of difficult access or far from users it can be connected to VRI10-I in order to have their variable monitored in a favorable location.

VRI10-I can protect the operator where the equipment to be monitored is installed in high places or in hazardous areas. Also, it requires no external power supply since it uses the 4 - 20 mA loop as power supply being 3.6 mA the minimum operating current.

Channel one of VRI10-I is connected in series between the 24 Vdc power supply and the equipment that generates 4-20 mA, which is desired to read the value of the output signal. Channel 2, if used, is connected in series between another power supply 24 Vdc and the second device to read its output signal. See below the connection diagrams of the VRI10-I of one channel and two channels. Through the copy function, it is possible to copy channel 1 settings to the channel 2 and vice versa.

CONNECTION



In some cases the place where a 4 – 20 mA device is installed is inaccessible or difficult to be reached by the operator. In this case VRI10-I Remote Indicator facilitates monitored variable visualization.

TECHNICAL AND PHYSICAL SPECIFICATIONS

Accuracy	± 0.2% of Calibrated Span
Power Supply	4-20 mA (via current loop)
Resolution	± 0.02%
Indication	Five Digits, Rotary, Multifunctional with Bargraph LCD
Options of Indication	Linear and Square Root
Voltage Drop	1.0 Vdc (maximum)
Operation Temperature	- 40 °C to 85°C
Configuration	Local Adjust with Magnetic Tool
Hazardous Area Certification	Explosion Proof and Intrinsically Safe
Protection Degree	IP67
Indication Channels	1 or 2 Channels (copy function from one to the other channel)
Housing Material	Aluminum with Polyester Painting
Gaskets	Buna – N
Approximate Weight (with bracket)	1.8 Kg

ORDERING CODE

VR110 *Remote Indicator*

Communication Protocol	I	4 – 20 mA
	P	PROFIBUS-PA
Channels	0	NOT APPLICABLE (ONLY PROFIBUS)
	1	ONE CHANNEL (ONLY 4 – 20 mA)
	2	TWO CHANNELS (ONLY 4 – 20 mA)
Certification Type	0	NO CERTIFICATION
	1	INTRINSICALLY SAFE
	2	EXPLOSION PROOF
Certification Body	0	NO CERTIFICATION
	1	INMETRO
Housing Material	A	ALUMINUM
Electrical Connection	1	½ – 14 NPT
Painting	1	BLUE – RAL 5005
Mounting Bracket	0	NO BRACKET
	1	SS 304 BRACKET

Ordering Code Example:

VR110	-	I	1	-	0	0	A	1	1	0
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*Explosion Proof Certification Ex tb (dust ignition) and Ex db (flame)