SERIES: VGR100

CE

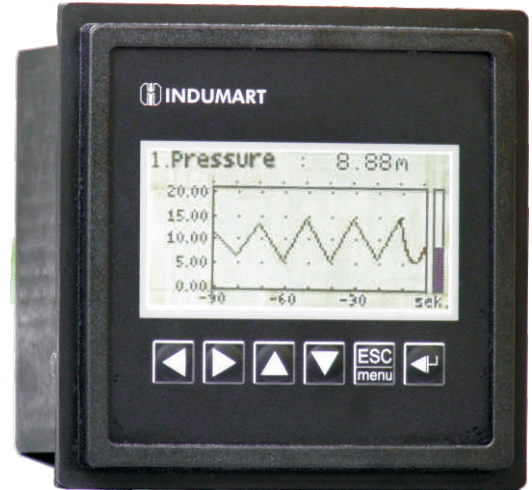➢ **0/4...20 mA or RTD INPUT**

➢ **2 ELECTRONIC RELAY OUTPUTS**

➢ **NUMERICAL OR CHART VIEWINGS**

➢ **TRANSFER OF DATA TO COMPUTER**

➢ **RS485 COMMUNICATION INTERFACE**

➢ **8 GB COMPACT MINI USB FLASH DISK (STICK)**

➢ **GALVANIC ISOLATION OF INPUT/OUTPUT/SUPPLY**

➢ **AUXILIARY POWER SUPPLY TO POWER SENSORS**

➢ **FREE CONFIGURATION & RECORDING SOFTWARE**

➢ **1 DIGITAL INPUT TO CONTROL RECORDING PROCESS**

INTRODUCTION

Indumart *VGR100 series* Single point Paperless Recorders present an economical solution for displaying the process data in the graph (trend) or numerical value formats on its bright screen, as well as storing the data in its large internal or external memories and transferring the data to a computer. As a standard feature, a software is accompanying the VGR100 to enable configuration, visualization, archiving and printing of data. Additionally, individual alphanumeric description (text) of the input is possible.

The input to the recorder may be either a current (mA) or an RTD signal. One pulse (digital) input is provided for controlling the recording process and two electronic relay outputs can be used for alarm or control of the process.

The recorder may be specified with USB port to transfer the data to a computer and with the aid of the supplied software, the user can configure, archive, view and print the data.

For the VGR100 without USB connection, the user would need to acquire an RS485 converter to either USB or RS232 connection for communication with Computer.

Economical Solution for data Recording
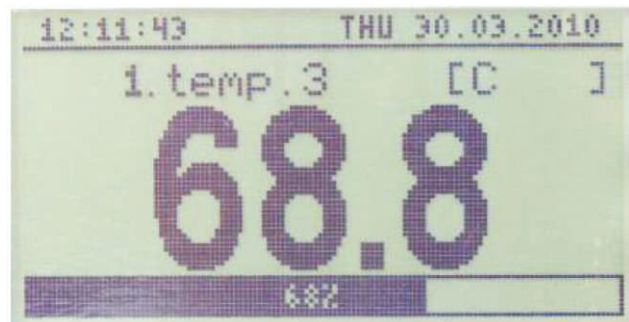
SPECIFICATIONS

Current Inputs	0/4...20 mA; 30 mA max.
RTD Inputs	Pt100, Pt500, Pt1000 (2- & 3-wire)
	Range: -200...600°C
Digital Input	1 x 0/15...24 VDC, 7.5 mA
	Isolation 1 min @ 500 VDC
Electronic Relay Output	200 mA @ 35 VDC
Accuracy	0.25% F.S. ± 1 digit
Analogue-digital Converter	12 bit
Communication Interface	RS485 (Modbus RTU)
RS485 Modbus Master/Slave	1200...115200 bit/s baud rate
	ASCII/RTU transmission mode
Display	3"; b/w 128 x 64 points with backlight
Power	85...260 VAC/DC;
	19...24...50 VDC or 16...35 VAC
	< 12 VA consumption
Auxiliary Power Supply	24 VDC ± 5%, 200 mA max.
	to supply power to external devices
	(for versions with current input only)
Insulation Strength	Between power and input/output:
	1 min @ 2300 V
Relay to Relay Isolation	1 min @ 1300 VAC
Buffer Internal Memory	8 MB (2,000,000 samples) when
	ordered with USB host;
	2 MB (500,000 samples) when
	ordered without USB host;
Compact Flash Disk	8 GB Mini USB Flash Memory
	(250,000,000 samples) when
	ordered with USB host
Operating Temperature	0...50°C
Case Material	NORYL (Hard Plastic)
Front Panel Protection	IP65 when ordered without USB host;
	IP20 when ordered with USB host;
Safety	EN61010-1 (IEC1010-1),
	Over-voltage Category II,
	Pollution degree 2
	Voltage in relation to ground: 300 VAC
	Insulation resistance: >20 MΩ
EMC	According to EN 61326-1
Panel Cut-out	90.5 x 90.5 mm
Overall Dimension	96 x 96 x 100 mm (H x W x D)

ORDER CODES

Model **VGR100 -** ☐ ☐ ☐ ☐

INPUT:
0/4...20 mA — C
RTD — R

USB HOST
Not Required — 0
Required — 1

POWER SUPPLY
85...260 VAC/DC — A
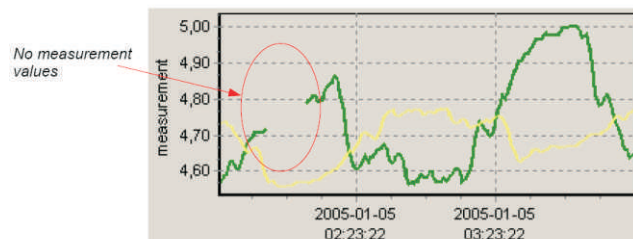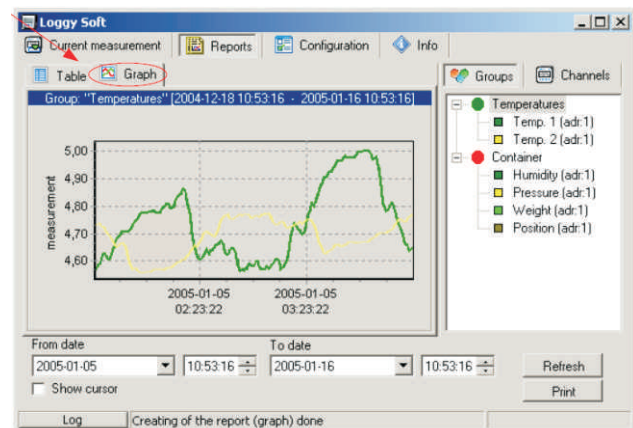19...**24**...50 VDC or 16...35 VAC — D

EXTERNAL MEMORY
Not Required — 0
8 GB Mini USB Flash Memory — 1

SOFTWARE

It enables visualization, archiving and printing of measurements stored in the VGR100 memory. Working takes place through an RS485 serial interface, or via the USB FlashDrive. Connecting a network of units to a serial port (RS 232) or USB port of a PC is possible using a proper converter (RS 485 to RS 232 or RS 485 to USB).