SCREEN500 - 3 / 6 CHANNELS VIDEORECORDER

SCREEN500 Color screen graphic recorder to display, store and analyze measurement data by multiple input. Equipped with a 5 " color screen, allowing to represent graphics and display data measured in the vertical scrolling. No paper need. Measured data stored in Flash memory and/or external support or downloaded via PC. The instrument is provided with 3 or 6 input channels, galvanically isolated. Configuration by front panel 8 keys or by PC.

- Graphic and digital data representation in vertical diagrams (with scale, numerical or histograms)

- Representation of events, eg. "Logic inputs"
- Immediate availability of data stored in FLASH memory
- Backup your data on 3.5 "diskette formatted
- Device configuration via keyboard or setup program
- Analysis of the data stored by program PCA
- Conversion of the measurement data format for tables or calculation programs
- Search for historical analysis
- Normal operation, events and time



TECHNICAL SPECIFICATIONS

Screen resolution:	320x240Pixel				
Screen Size:	5"				
Number of colors:	27 colors				
Image frequency:	> 150 Hz				
Contrast:	adjustable on the devic	ce			
Stand-by:	through waiting time or	control signal			
Power supply:	110240Vac +10/-15%	%, 48-63 Hz or 20…43Va	ic 48-63Hz		
Power consumption:	25VA ac				
Electrical connection:	screw terminals rear se	ection. <2.5 mm ² or 2x1.5	mm²		
Electromagnetic compatibility:	EN 50081-1, EN50082	-2, NAMUR recommenda	tion NE21		
Safety norms:	second EN61010				
Protection:	EN60529 cat. 2, front I	P54, back IP20			
Casing:	back panel DIN 43700, sheet steel galvanized				
Front dimensions:	144x144 mm 236.5 mm including terminals mounting depth				
Frontal panel cut-out:	138x138 mm. (+1mm)				
Environmental conditions:	temperature 045°C, humidity <75%RH not condensation				
Mounting:	in the control cabinet a	ccording to DIN43834			
Weight:	about 3,5 kg				
Short circuit / break signal generator		Short circuit	Break		
	Thermocouple	not detected	detected		
	RTDs	detected	detected		
	Voltage <210 mV	not detected	viene rilevato		
	Voltage >210 mV	not detected	not detected		
	Current	not detected	not detected		
Acquisition time:	3 or 6 channels = 250 ms digital filter of 2nd order; filter constant adjustable from 0 10 s				
Input filter:					
Test voltage galvanic isolation	350 V (via optocoupler)			
Resolution:	> 14 bit				
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ANALOG INPUTS							
Voltage, current	Range	measuremen	t base	Accuracy	Resistance input		
		-20+70 mV		+/-80 μV	1MOhm		
		0100 mV		+/-100 μV	1MOhm		
	0200mV			+/-240 μV	470kOhm		
		012 V		+/-6 mV	470kOhm		
		01 V		+/-1 mV	470kOhm		
		-1+1 V		+/-2 mV	470kOhm		
		-10+12 V		+/-12 mV	470kOhm		
	Minimum acce	ptable value		5 mV			
	Start and full s	cale value:		freely programmable in steps of 0.01 mV			
	-2+22 mA -22+22 mA Minimum acceptable value Start and full scale value:			+/-20 μA	load voltage 1V		
				+/-20 μA	load voltage 1V		
				0,5 mA			
				freely programmable in steps of 0.01 mA			
Thermocouple	Denomination	type	Norm	Range	Acc	uracy	
	Fe-CuNi	L	DIN43710	-200+900°C	+/- (D.1%	
	Fe-CuNi	J	DIN EN60584	-210+1200°C	+/- 0.1% fr	rom 200°C	
	Cu-CuNi	U	DIN43710	-200+600°C	+/- (0.1%	
	Cu-CuNi	Т	DIN EN60584	-270+400°C	+/- 0.1% f	rom 200°C	
	NiCr-Ni	К	DIN EN60584	-270+1372°C	+/- 0.1% f	rom 200°C	
	NiCr-CuNi	E	DIN EN60584	-270+1000°C	+/- 0.1% f	rom 200°C	
	NiCrSi-NiSi	N	DIN EN60584	-270+1300°C	+/- 0.1% fr	rom -100°C	
	Pt10Rh-Pt	S	DIN EN60584	-50+1768°C	+/- 0.1% fr	rom 500°C	
	Pt13Rh-Pt	R	DIN EN60584	-50+1768°C	+/- 0.1% f	rom 500°C	
	Pt30RhPt6Rh	В	DIN EN60584	0+1820°C	+/- 0.1% f	rom 400°C	
	W3Re/W25Re	W3		0+2400°C	+/- 0	.15%	
	W5Re/W25Re	W5		0+2320°C	+/- 0	.15%	
	Minimum acceptable value Start and full scale value: Internal temperature compensation:			tipo L, J, U, T, K, E, N 100°C; S, R, B, W3, W5 500°C			
			freely programmable in steps of 0.1 °C				
			Accuracy '+/- 1°C				
	Esternal temperature compensation:			-50+150°C with Setup Software			
RTDs	Denomination	Norm	Connection	Range	Accuracy	Current	
	Pt100	DIN EN60751	2/3 wires	-200+100°C	+/-0,5°C	500 μA	
			2/3 wires	-200+850°C	+/-0,9°C	250 μΑ	
			4 wires	-200+100°C	+/-0,5°C	500 μA	
			4 wires	-200+850°C	+/-0,6°C	250 μΑ	
	Pt100	JIS	2/3 wires	-200+100°C	+/-0,5°C	500 μA	
			2/3 wires	-200+650°C	+/-0,9°C	250 μΑ	
			4 wires	-200+100°C	+/-0,5°C	500 μA	
			4 wires	-200+650°C	+/-0,6°C	250 μΑ	
	Ni 100		2/3 wires	-60+180°C	+/-0,5°C	500 μA	
				-60+180°C	+/-0,5°C	500 μA	
Pt500	Pt500	DIN EN60751	2/3 wires	-200+100°C	+/-0,5°C	250 μΑ	
			2/3 wires	-200+850°C	+/-0,9°C	250 μΑ	
			4 wires	-200+100°C	+/-0,5°C	250 μΑ	
			4 wires	-200+850°C	+/-0,6°C	250 μΑ	
Pt1000	Pt1000	DIN EN60751	2/3 wires	-200+100°C	+/-0,5°C	500 μA	
			2/3 wires	-200+850°C	+/-0,9°C	250 μΑ	
			4 wires	-200+100°C	+/-0,5°C	500 μA	
	4 wires		4 wires	-200+850°C	+/-0,6°C	250 μΑ	
	Minimum acceptable value Start and full scale value: Conductor resistance sensor - max:			15°C			
				freely programmable in steps of 0.1 °C			
				30Ω /wire (3/4-wire connection)			
				10 Ω /wire (2-wire connection)			

		Options			
Logic inputs	Input number	4 in compliance with DIN19240; 1 Hz max, 32V max			
	Level	logical "0": 0 5V, logical "1": 20 32V			
	Acquisition time	minimum 1 s			
	Auxiliary voltage (output):	24V, 30mA (short-circuit proof)			
Output	No. 3 relays	SPDT switch (230V, 3A)			
Serial interface	RS232 / RS485	for reading data and measurement unit (Modbus)			
Operation and configuration					
On the instrument	Configuration by 8 keys buttons and menu driven; three perform predetermined functions (Enter, Menu, Exit), five can vary their function and visual representation according to the context. The current functions are displayed at the bottom edge of the screen, so that they are always related to the service that you want to set. A code number protects configuration from unauthorized access.				
PC Software setup (optional)	This configuration is easier than the previous one using the keyboard on the unit. The configuration data can be stored on a data carrier (diskette) and read on the screen or transferred to the device via the serial interface (requires cable Setup) or printed.				
Language	The operating language can be configured to various countries, such as .: German, English, French, Dutch, Italian, Spanish, Hungarian, Czech, Swedish, Polish and Danish. Other languages on request.				
Process Program (optional)	The processing program (PCA), which runs under Windows and NT 4.0, you can manage, store, view and process data recorder stored on disk. The data of devices configured in various ways are recognized by the processing program and stored in a database. The complete management is performed automatically. It only introduces an identifier (supplementary description). The user can access at any time to certain data sets, differentiable in the identifier. You can also limit the time fields to process. The analog and digital channels of any type of recorder can then be grouped into so-called PCA groups. Since each group is displayed in its own window, you can view and compare among them several groups. Control via mouse and keyboard. The export filter allows you to export the stored data so it can be processed with other programs (Excel etc.).				
	PCA processing program car users to access indipendently	n be provided in server communication version, so allows several y to the data from the instrument data base.			
Interfaces	The RS232 and RS485 (optional) allow you to read the updated data of the process as well as those specific to the device. Coupled to the processing program PCA allow to also read the archived data (FLASH memory. RS232 interface enables up to 15 meters max cable connecion, RS485 up to 1.2 km max cable along. SUB-D 9-pin serial port on the back unit. MOD-bus and J-bus protocols.				



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