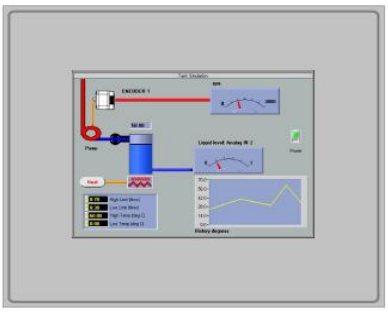
PPC - PANEL OPERATOR AND TOUCH SCREEN PLC

Touch screen panel operator with integrated PLC for process control and for interfacing to a supervisory system. 12Mb memory. 128 independent timers available to the user program, resolution 10 ms. Ability to handle up to three PLC simultaneously. Software PID control and ON / OFF functions "soft start" and "Self-tuning" to acquire the control parameters. "Data logger" with saving variables PLC on USB mass storage. Protection function of the recordings "Secure Datalog". Ability to full control the panel system (monitors and HMI screens) by PC via LAN connection.



"DataLogger" functional characteristics

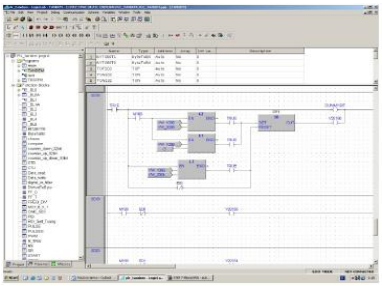
Sampling rate of analog inputs: max 500 samples per second.
Recording speed on mass storage: 1 sample per second for each variable.

Display of variables acquired on monitors in real time and in graphic form.

Stored variables on mass storage via USB; using a hub, you can enter up to four mass storage media.

The recording time is limited only to the size of the mass storage device connected.

The acquired data of each variable are: dd / mm / yyyy - hh / mm / ss - variable name - data detected.



The files stored on mass storage is a text and easily exportable to XLS format. Customizing the name of the variables.

Start / Stop recording can be managed directly from the controller or by the operator interface.

Secure Datalog (21 CFR PART 11 Regulations)

The Secure Data Log enables the acquisition and registration of a storage mass, via USB connection, all events and / or variables defined by the programmer ensuring durability and protection of acquired values. The acquired data is encrypted with standard encryption algorithms with 128-bit symmetric key and protected by an additional password. The storage medium contains only encrypted records, one for each variable to be captured. The recorded data are available in text format that can be imported in XLS permission to perform the decryption. The decryption is done only by knowing both the encryption key and the password protection. Key and password are set by the user and may be valid for the single recording session / decryption or more sessions depending on security degree required. The software module for decryption is available, on request, also for PC with Windows operating system, if data decryption can be not carried on board.

TECHNICAL SPECIFICATIONS

Monitor:	320x240 TFT LCD with 256-color touch screen function
Output:	1 x RS485, 1 x CanBus, 1 x USB 1.0, 1 x LAN Ethernet
System:	Linux kernel Soft PLC (IEC 61131-3 standard languages)
Front dimensions mm.:	HxWxD 140x 200x65
Panel cutout HxD mm:	120x190
Work temperature:	0…50°C
Front protection:	IP65
Thermal stability:	50 ppm/°C

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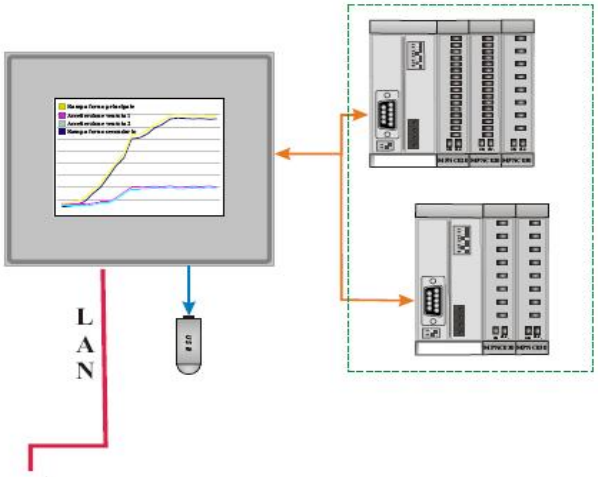
PPC - PANEL OPERATOR PLC - I / O MODULES

	DIGITAL I/O MODULES		
Description:	**IN**	**OUT**	**IN/OUT**
PNP Input:	16	-	8
PNP Output:	-	16	8
Maximum output current 1:	-	500mA	500mA
Max current on all outputs:	-	2A	2A
Power supply:	24Vdc +/-15%, 3W		
Dimensions WxHxD mm:	115x115x22,5		
Operating temperature:	0…50°C		
Protection degree:	IP20		

	ANALOG I/O MODULES				
Description:	**IN**	**IN**	**IN**	**IN**	**OUT**
Input:	4 x (J, K, T, RTD100, 4-20mA, 0-10V)	8 x (J, K, T)	8 x (4-20mA)	8 x (0-10V)	-
Output:	-	-	-	-	4 x (4-20mA, 0-10V)
I/O Accuracy:	0.5%				
Thermal stability:	50 ppm/°C				
Power supply:	24Vdc +/-15%, 3W				
Dimensions WxHxD mm:	115x115x22,5				
Operating temperature:	0…50°C				
Protection:	IP20				

CANopen interface: CanOpen protocol							
Process mode:		Setup:	max IN/OUT:	Cable:	N. PDOs:	Max Baudrate:	
syncron, cyclic, event driven, polling		from PLC	1024	shielded	16 Tx 16 Rx	1 Mbit/sec	
Cable length:	5 km	2.5 km	1 km	500 m	250 m	100 m	40 m
Data Transfer	10 kbaud	20 kbaud	50 kbaud	125 kbaud	250 kbaud	500 kbaud	1000 kbaud



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