Pixsys
ELECTRONICS

Short form catalogue

Certificate No.
146728-2013-AQ
ITA-ACCREDIA

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Pixsys stands for over twenty years of experience in designing and manufacturing of instrumentation for process control and industrial automation.

The range of products has been constantly expanding and currently includes indicators, PID controllers, signal converters, PLCs with I/O modules, HMIs and Panel PC.

All product segments are rooted in Pixsys background and expertise in process control, aiming to support customers with solutions for all measuring, visualization and control requirements.

Starting with hardware and software design, up to product assembly, the entire manufacturing cycle is completed at company's factory in Italy upon Lean manufacturing standards.
Milestone of Pixsys Quality policy is the QR-code marking system, which ensures the complete traceability of the product throughout its entire life cycle.

Product concept relies on extremely flexible hardware and software structures among the most versatile in their market segment. User-friendly interfaces and innovative programming tools simplify start-up and after-sales service.

Browse the web site www.pixsys.net for detailed information.

DOWNLOAD
Manuals, Application Notes and software tools are available for download either within product pages or in the general Download area.

VIDEO-MANUALS
Short video-manuals provide descriptions and examples about programming options by keyboard or by Memory Cards, as well as demos of software tools. Check company's YouTube channel.

FORUM & FAQ
A dedicated area for all your questions related to set-up, configuration and operating modes for Pixsys devices, including FAQ area for round-the-clock answers to the most frequent questions. A growing community of users sharing comments, questions, programming hints.

TRAINING SESSIONS
Special attention is reserved to technical trainings about programmable systems (PLCs, HMIs) but also about parametric devices if required. Arranged upon request, trainings can be focused on a specific project, as an opportunity to combine theory and practice. Contact our Sales team for details.

EXTENSIVE SALES NETWORK
Become a PIXSYS partner!
Our expanding sales network includes Systems Integrator with strong background in PLCs and HMIs programming as well as distributors of industrial electronic devices with a focus on solutions rather than on single components.
OEM companies can rely on our R&D department for tailored projects.

NEWSLETTER
Sign-up on our website to receive regular updates about products, special promotions, events and tradeshows.

PID Controllers

ENTRY LEVEL

	ATR121	ATR171	ATR144	ATR224
DIMENSIONS (mm)	32 x 74 x 53	72 x 72 x 99	32 x 74 x 53	1/16 DIN (48 x 48 x 105)
POWER SUPPLY	230 AC 12..24 V AC / DC 2 W - Isol. 3750 V	24..230 V AC / DC 5,5 W - Isol. 2500 V	24..230 V AC / DC 2 W - Isol. 2500 V	24..230 V AC / DC 5,5 W - Isol. 2500 V
PROGRAMMABLE ANALOGUE INPUTS	1	1 / 2 (23 ABC-T)	1	1
DIGITAL INPUT	○	●	●	●
CURRENT TRANSFORMER INPUT	○	○	○	○
RELAY OUTPUTS	2	1..4	2	2
SSR CONTROL OUTPUT	●	●	●	●
ANALOGUE OUTPUTS (mA/Volt)	○	● (Optional)	○	○
RS485 / MODBUS RTU	○	● (Optional)	● (Optional)	○
CANopen	○	○	○	○
SOFTWARE FEATURES				
PID / AUTOTUNING	●	●	●	●
PROG. HEATING / COOLING ACTION	●	●	●	●
OPEN / CLOSE LOGIC (valves)	●	●	●	○
RETRANSMISSION PV/SPV	○	●	○	○
REMOTE SETPOINT	○	●	○	○
RAMP / SOFT START	○	●	●	●
PRE-PROGRAMMED CYCLE (3 steps)	○	●	●	○
DUAL PID HEATING / COOLING	●	●	●	○
LIMIT CONTROLLER (manual reset)	○	●	●	●
EASY-UP CODES	○	●	●	●
MEMORY CARD	●	●	● (USB)	● (USB)
LABSOFTVIEW (programming software)	●	●	●	●
"MyPixsys" NFC APP	○	○	●	●
APPLICATIONS				
FOOD INDUSTRY	●	●	●	●
COLD CHAIN EQUIPMENTS / HVAC	●	●	○	○
PACKAGING	○	○	●	●
PLASTICS / RUBBER INDUSTRY	○	●	●	●
FOOTWEAR / LEATHER MACHINERY	●	○	●	●
TEXTILE INDUSTRY	○	○	●	●
LABORATORY EQUIPMENTS	○	○	●	●
OVENS / FURNACES	●	●	●	●
BURNERS / BOILERS	●	○	●	○

BLUE LINE!				MULTI-ZONE SYSTEMS	
					
ATR244	**ATR444**	**DRR224**	**DRR244**	**DRR460**	**DRR450**
1/16 DIN (48 x 48 x 105)	1/8 DIN (48 x 96 x 123)	4 modules DIN43880 (DIN rail EN60715)	4 modules DIN43880 (DIN rail EN60715)	1 module DIN43880 (DIN rail EN60715)	(DIN rail EN60715)
24..230 V AC / DC 8 W - Isol. 2500 V	24..230 V AC / DC 4 W - Isol. 2500 V	24..230 V AC / DC 3 W - Isol. 2500 V	24..230 V AC / DC 3 W - Isol. 2500 V	24 V DC 3 W	24 V DC 1 W
1 / 2	2	1	1	1	1 (TC K, J, T, E)
2 / 4	2 / 4	●	2	○	○
● (Optional)	●	○	●	●	●
2 / 3	2..4	2	3	○	○
2 / 4	2 / 4	1	2	2	●
1 / 2	● (Optional 1 / 2)	○	●	● (0/4..20mA)	○
● (Optional)	● (Optional)	○	●	●	●
○	○	○	○	●	○
●	●	●	●	●	●
●	●	●	●	●	●
●	●	○	●	●	○
●	●	○	●	●	○
● (Optional)	●	○	○	○	○
●	●	●	●	●	●
●	●	○	●	○	○
●	●	○	●	●	●
●	●	●	●	○	○
●	●	●	●	○	○
● (USB)	● (USB)	● (USB)	● (USB)	● (USB)	○
●	●	●	●	●	●
●	●	●	●	○	○
●	●	●	○	●	○
○	●	○	●	○	○
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	○	●	●
●	●	●	●	●	●
●	●	●	○	○	○
●	●	●	○	●	●
○	●	○	●	○	○

Process Controllers / Programmers





	ATR421	ATR621	ATR902	KTD710	KTD820
DIMENSIONS (mm)	1/8 DIN (48 x 96 x 123)	72 x 72 x 99	120 x 65 x 65	7" 16/9 TFT 800 x 480	12" 16/9 TFT 1280 x 800
POWER SUPPLY	24..230 V AC / DC 4 W - Isol. 2500 V	24..230 V AC / DC 5,5 W - Isol. 2500 V	230 V AC 4 W - Isol. 2500 V	24 V DC	24 V DC
PROGRAMMABLE ANALOGUE INPUTS	1	1	1	2..4	2..4
DIGITAL INPUT	1	1	○	8..16	8..16
RELAY OUTPUTS	2..4	2..4	2	8..16	8..16
SSR CONTROL OUTPUT	●	●	○	2..4	2..4
ANALOGUE OUTPUTS (mA/Volt)	●	●	○	2..4	2..4
RS485 / MODBUS RTU	● (Optional)	● (Optional)	○	○	○
ETHERNET / MODBUS TCP	○	○	○	●	●
POTENTIOMETER INPUT / FEEDBACK SIGNAL	●	●	○	○	○
SOFTWARE FEATURES					
PID / AUTOTUNING	●	●	●	●	●
OPEN / CLOSE LOGIC (valves)	●	●	○	●	●
RETRANSMISSION PV/SPV	●	●	○	○	○
REMOTE SETPOINT	○	○	○	○	○
CYCLE RECOVERY	●	●	●	●	●
WAITING FUNCTION	●	●	●	●	●
DELAYED START	●	●	●	●	●
GAS KILN OPTIONS	●	○	○	●	●
MULTILOOP APPLICATIONS	○	○	○	●	●
CYCLES / PROGRAMS	15	15	15	99	99
STEPS / SEGMENTS	45	45	18	45	45
MEMORY CARD	●	●	○	●	●
LABSOFTVIEW (programming software)	●	●	○	○	○
REMOTE CONTROL (VNC)	○	○	○	●	●
APPLICATIONS					
GLASS / CERAMICS KILNS	●	●	●	●	●
ENVIRONMENTAL CHAMBERS	●	●	○	●	●
DRYERS	●	●	○	●	●
HEAT TREATMENT PLANTS	●	●	○	●	●
LABORATORY EQUIPMENT	●	○	○	○	○
INDUSTRIAL FURNACES	●	●	●	●	●
HOBBY KILNS (pottery, metal clay, glassware)	○	●	●	○	○
METAL WORKING	●	●	○	●	●
FOOD INDUSTRY	●	●	○	●	●

Timers / Counters

	TCT101-1ABC	TCT101-2ABC	TCT101-3ABC	TCT101-4ABC-T	TCT201-1ABC	TCT201-2ABC	TCT201-3ABC
DIMENSIONS (mm)	32 x 74 x 53				48 x 48 x 107		
POWER SUPPLY	24..230 V AC / DC 3 W - Isol. 2500 V				24..230 V AC / DC 3 W - Isol. 2500 V		
DIGITAL INPUTS (NPN / PNP / TTL)	3	3	3	3	3	3	3
RELAY OUTPUTS	2	2	2	1	2	2	2
ANALOGUE INPUT (potentiometer)	●	●	●	●	●	●	●
RS485 / MODBUS RTU	○	○	○	●	○	○	○
SOFTWARE FEATURES							
TIMER (on-off / pause-work / oscillator / pwm)	●	○	○	●	●	○	○
PROGRAMMABLE TIME BASIS	●	○	○	●	●	○	○
COUNTER MODE (up / down / lock / hold)	○	●	○	●	○	●	○
COUNTING FREQUENCY (up to 100 KHz)	○	●	○	●	○	●	○
TACHOMETER (up to 100 KHz)	○	○	●	●	○	○	●
START / STOP / HOLD BY DIGITAL INPUT	●	●	●	●	●	●	●
BACK-UP BATTERY	●	●	●	●	●	●	●
MEMORY CARD	●	●	●	●	●	●	●
LABSOFTVIEW (programming software)	●	●	●	●	●	●	●
ENCODER MONO-DIR. (Push Pull / Line Driver)	○	●	●	●	○	●	●
ENCODER BI-DIR. (Push Pull / Line Driver)	○	●	●	●	○	●	●
APPLICATIONS							
FOOD INDUSTRY	●	●	●	●	●	●	●
COLD CHAIN EQUIPMENTS / HVAC	○	○	○	○	○	○	○
PACKAGING	●	●	●	●	●	●	●
PLASTICS / RUBBER INDUSTRY	●	●	●	●	●	●	●
FOOTWEAR / LEATHER MACHINERY	●	●	●	●	●	●	●
TEXTILE INDUSTRY	●	●	●	●	●	●	●
LABORATORY EQUIPMENTS	●	●	●	●	●	●	●
OVENS / FURNACES	●	●	●	●	●	●	●
BURNERS / BOILERS	●	●	●	●	●	●	●

Indicators / Panel meters

Programmable by RFID /NFC
No wiring required!

	STR551	STR561	STR571	STR581
DIMENSIONS (mm)	1/8 DIN (96 x 48 x 48)	1/8 DIN (96 x 48 x 48)	1/8 DIN (96 x 48 x 48)	1/8 DIN (96 x 48 x 48)
POWER SUPPLY	24..230 V AC / DC 6 W - Isol. 2500 V	24..230 V AC / DC 6 W - Isol. 2500 V	24..230 V AC / DC 6 W - Isol. 2500 V	24..230 V AC / DC 6 W - Isol. 2500 V
PROGRAMMABLE ANALOGUE INPUT	1	0	0	0
STRAIN GAUGE ANALOGUE INPUT	0	1	0	0
DIGITAL INPUTS	2	2	3	4
DIGITAL OUTPUTS	○	○	○	2
RELAY OUTPUTS	2	2	2	2
ANALOGUE OUTPUTS	●	● (0/4..20 mA)	○	○
RS485 / MODBUS RTU	1	1	2	1
OLED DISPLAY	●	●	●	●
SOFTWARE FEATURES				
COUNTER / COUNTING FREQUENCY	○	○	○	●
SUM	●	●	○	○
TOTALIZER	●	●	●	●
AUTO CALIBRATE / TARE FUNCTION	○	●	○	○
LATCH-ON FUNCTION	●	○	●	○
ALARMS	2	2	2	4
TREND / BAR GRAPH	●	●	○	○
DATA LOGGER	●	●	○	○
ANALOGUE RETRANSMISSION	●	●	○	○
LIMIT CONTROLLER (manual reset)	●	●	○	○
MODBUS MASTER (8 variables)	○	○	●	○
MODBUS MULTI-MASTER	○	○	●	○
EASY-UP CODES	○	●	○	○
MEMORY CARD (USB)	●	●	●	●
LABSOFTVIEW (programming software)	●	○	○	○
"MyPixsys" NFC APP GET IT ON Google Play Available on the iPhone App Store	●	●	●	●
APPLICATIONS				
FOOD INDUSTRY	●	●	●	●
COLD CHAIN EQUIPMENTS / HVAC	●	○	●	●
PACKAGING	●	●	●	●
PLASTICS / RUBBER INDUSTRY	●	●	●	●
FOOTWEAR / LEATHER MACHINERY	○	○	○	○
TEXTILE INDUSTRY	●	●	●	●
LABORATORY EQUIPMENTS	●	●	○	○
OVENS / FURNACES	●	○	○	○
BURNERS / BOILERS	○	○	○	○
MODBUS REMOTE DISPLAY	○	○	●	●

Signal converters

Programmable by RFID /NFC
No wiring required!

	2000.35.010	2000.35.015	2000.35.016	2000.35.017
DIMENSIONS (mm)	45 x 23	45 x 23	1 mod. DIN43880 (DIN rail EN60715)	1 mod. DIN43880 (DIN rail EN60715)
POWER SUPPLY	6..32 V DC	6..32 V DC	6..32 V DC	6..32 V DC
ANALOGUE INPUT	PT100 / Ni100 / PT1000	PT100 / Ni100 / TC	PT100 / Ni100 / TC	0/4..20 mA - 0..10 V
ANALOGUE OUTPUT	4..20 mA	4..20 mA	4..20 mA	4..20 mA
GALVANIC ISOLATION (800 V)	○	●	●	●
LINEARIZATION (16 step)	○	○	○	●
RFID - NFC (USB Programmer cod. 2000.35.012)	●	●	●	●
"MyPixsys" NFC APP	●	●	●	●
APPLICATIONS				
FOOD INDUSTRY	●	●	●	●
COLD CHAIN EQUIPMENTS / HVAC	○	○	○	●
PACKAGING	○	○	●	●
PLASTICS / RUBBER INDUSTRY	●	●	●	●
FOOTWEAR / LEATHER MACHINERY	○	○	●	○
OVENS / FURNACES	●	●	●	○

Current transformers

	2000.35.013 / 022	2000.35.014 / 033	2000.35.021 / 036	2000.35.032
DIMENSIONS (mm)	46,1 x 63 x 26,4	46,1 x 63 x 26,4	46,1 x 63 x 26,4	1 mod. DIN43880 (DIN rail EN60715)
POWER SUPPLY	11..30 V DC	12..35 V DC	9..30 V DC	10..40 V DC
MAX CURRENT READ (AC Voltage)	50 A / 300 A	50 A / 300 A	50 A / 300 A	External C.T. with F.S. 1 A, 5 A, 333 mV, C.T. Rogowski
MAX CURRENT READ (DC Voltage)	± 25 A o 50 A / ± 150 A o 300 A		50 A / 300 A	External C.T. with F.S. 1 A, 5 A, 333 mV, C.T. Rogowski
ANALOGUE OUTPUT	4..20 mA	0..10 V DC	○	○
RS485 / MODBUS	○	●	●	●
VOLTAGE ANALYZER	○	○	●	●
APPLICATIONS				
FOOD INDUSTRY	●	●	○	○
COLD CHAIN EQUIPMENTS / HVAC	○	○	●	●
PACKAGING	●	●	●	○
PLASTICS / RUBBER INDUSTRY	●	●	●	●
OVENS / FURNACES	●	●	○	●

PLCs

			NEW	NEW	NEW
					
	EPL301	**EPL302**	**PL500**	**PL600**	**PL700**
DIMENSIONS (mm)	120 x 125 x 84	125 x 155 x 84	3 mod. DIN43880 (DIN rail EN60715) 53 x 89 x 60	3 mod. DIN43880 (DIN rail EN60715) 53 x 89 x 60	3 mod. DIN43880 (DIN rail EN60715) 53 x 89 x 60
POWER SUPPLY	24 V DC	115..230 V AC	12..24 V DC	12..24 V DC	12..24 V DC
DIGITAL INPUTS	○	Up to 16	○	○	○
DIGITAL OUTPUTS (NPN)	16	2	○	○	○
DIGITAL OUTPUTS (PWM)	○	1			
DIGITAL OUTPUTS (relays)	○	6 relays 10A + 1 30A	○	○	○
EXPANSIONS (ESPx modules)	2	4	○	○	○
SERIAL PORTS	1 RS232 - 1 RS485	1 USB - 2 RS485	1 RS232 - 1 RS485 1 CAN	1 RS232 - 1 RS485 1 CAN	1 RS232 - 1 RS485 1 CAN
PROTOCOLS	Modbus RTU Modbus TCP/IP Free port	Modbus RTU Modbus TCP/IP Free port	Modbus RTU - Modbus TCP/IP CAN Open Master	Modbus RTU - Modbus TCP/IP CAN Open Master	Modbus TCP master/ slave, Modbus RTU master/slave, EtherNet/IP scanner/ adapter, PROFINET controller/device, EtherCAT master, CANopen master/ slave, J1939
ETHERNET	●	●	1 / 2 (Optional USB to ETHERNET)		
EXPANSIONS ON EPL DIN BUS	○	○	●	●	●
REMOTE DISPLAY (RS485)	●	●	○	○	○
SOFTWARE FEATURES					
FLASH MEMORY	2 MB	2 MB	4GB	4GB	4GB
RAM (variables area)	1 MB	1 MB	512 MB	512 MB	512 MB
EEPROM AREA	1000 words	1000 words	5000 words	5000 words	5000 words
MEMORY AREA	32000 words (Optional)	13000 words	4GB	4GB	4GB
REALT-TIME CLOCK	●	●	●	●	●
FIRMWARE UPDATE by Memory Card	●	●	●	●	●
SCANNING CYCLE	Min. 2 ms	Min. 2 ms	Min. 2 ms	Min. 2 ms	Min. 2 ms
MQTT Client	○	○	●	●	●
WEB SERVER	○	○	● (Movicon)	●	● (WebVisu)
VPN PIXSYS PORTAL	○	○	●	●	●

ESPx expansions for EPL30x

	ESPX-1	ESPX-2	ESPX-3	ESPX-4
DIGITAL INPUTS	8	○	○	○
DIGITAL OUTPUTS (PNP)	○	8	○	○
ANALOGUE INPUTS	○	○	5x NTC 10K / PTC 1K	2x PT100 / TC type K, J, S, R, T, E, N, B + 2x 4..20mA
ANALOGUE OUTPUTS	○	○	○	○

I/O modules

Programmable by RFID /NFC
No wiring required!


MCM260X-1AD


MCM260X-2AD


MCM260X-3AD


MCM260X-4AD


MCM260X-5AD


MCM260X-9AD

PROTOCOLS	Modbus RTU / CANOpen					
DIGITAL INPUTS	○	16 PNP	8 PNP	8 PNP	○	PNP, up to 16 selectable as inputs/outputs
ENCODER INPUT	○	3 Encoders, overlapped to 9 PNP inputs	1 Encoders overlapped to 3 PNP inputs	1 Encoders overlapped to 3 PNP inputs	○	4 Encoders overlapped to 12 PNP inputs
ANALOGUE INPUTS	○	2 over D.I. 2/3 only 0..10 V	○	2 over D.I. 2/3 only 0..10 V	4 configurable independent. Selectable: TC typeK, J, S, R, T, E, N, B, PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K), linear inputs 0/4..20mA, 0..60mV, 0..1V/0..5V/0..10V, Input potentiometer 1..150 KOhm	
DIGITAL OUTPUTS	16	○	8	○	○	Up to 16 selectable as static outputs
RELAYS	○	○	○	8 Relays, 5A res. Load	○	○
ANALOGUE OUTPUTS	○	○	○	○	2 configurable independent selection 0..10V or 4..20 mA	
GALVANICAL ISOLATION	From supply to serial Bus				From supply to analogue input / output to serial Bus	

PLE modules for PL500, PL600, PL700

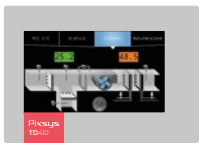
Programmable by RFID /NFC
No wiring required!

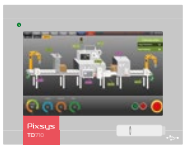

PLE500 - 6AD


PLE500 - 8AD

PROTOCOLS	PLE - DIN - BUS	PLE - DIN - BUS
DIGITAL INPUTS	PNP, up to 16 selectable as inputs/outputs	○
ENCODER INPUT	4 Encoders overlapped to 12 PNP inputs	○
ANALOGUE INPUTS	2, 4 ... 20 mA / 0...10 V	1x Selectable: TC typeK, J, S, R, T, E, N, B, PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K), linear inputs 0/4..20mA, 0..60mV, 0..1V/0..5V/0..10V, Input potentiometer 1..150 KOhm
DIGITAL OUTPUTS	Up to 16 selectable as static outputs	2
RELAYS	○	○
ANALOGUE OUTPUTS	2, 0/4 ... 20 mA	1, 4 ... 20 mA
GALVANICAL ISOLATION	From supply to serial Bus	From supply to serial Bus

HMI - Operator panels



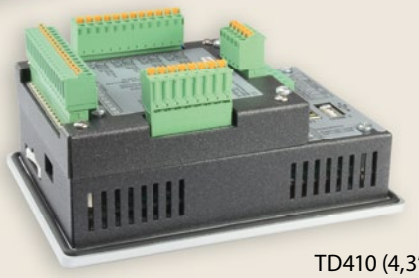


	TD410	TD710	TD810	TD820
DISPLAY	4.3" 16/9 TFT 480 x 272	7" 16/9 TFT 800 x 480	10" 4/3 TFT 800 x 600	12" 16/9 TFT 1280 x 800
TOUCH-SCREEN	Resistive	Resistive	Resistive	Resistive
DIMENSIONS (mm)	140 x 100 x 29	204 x 160 x 35	274 x 216 x 35	317 x 256 x 35
PANEL CUT-OUT (mm)	132 x 90	181 x 144	259 x 202	302 x 242
POWER SUPPLY	12..24 V AC / DC - 5,5 W	12..24 V AC / DC - 6,5 W	12..24 V AC / DC - 7,5 W	12..24 V AC / DC - 8,5 W
SERIAL PORTS	RS485 - CAN - 1 USB	RS232 - RS485 CAN - 3 USB	RS232 - RS485 CAN - 3 USB	RS232 - RS485 CAN - 3 USB
ETHERNET	10 / 100 Mbit/s	10 / 100 Mbit/s	2x 10/100/1000 Mbit/s	2x 10/100/1000 Mbit/s
EXPANSION I/O SLOT 1	ETD1644	ETD1644	ETD1644	ETD1644
EXPANSION I/O SLOT 2	○	ETD1644	ETD1644	ETD1644
EXPANSION I/O SLOT 3	○	○	○	○
SOFT-PLC	●	●	●	●
SOFTWARE FEATURES				
OPERATING SYSTEM	Windows® Embedded Compact 7 (WEC 7)			
CPU	CORTEX-A8 @1.0GHz			
RAM	512 MB DDR3			
FLASH MEMORY / STORAGE	4GB	4GB	4GB	4GB
FANLESS (0-45°C Op. temperature)	●	●	●	●
UPS (assisted shut down)	○	○	○	○
MQTT Client	●	●	●	●
VPN PIXSYS PORTAL	●	●	●	●
PROGRAMMING TOOLS				
LOGICLAB (logics)	●	●	●	●
MOVICON CE (logics - graphics)	●	●	●	●
MOVICON X86 (logics - graphics)	○	○	○	○
PROTOCOLS	Modbus RTU - Modbus TCP/IP - CAN Open - ADS Twin CAT - B+R System 2000 PVI - S7/TCP - FINS Serial - FINS Ethernet - NJ Ethernet/IP - MELSEC Serial - MELSEC Ethernet - DF1 Protocol - Ethernet/IP			

I/O Plug-in for HMI

	ETD1644-I/O
DIMENSIONS (mm)	92 x 87 x 17
POWER SUPPLY	12..24 V DC
DIGITAL INPUTS	Up to 16 selectable
DIGITAL OUTPUTS (PNP)	Up to 16 selectable
ANALOGUE INPUTS	4 (configurable independent)
ANALOGUE OUTPUTS	4 (16 bit) 4..20mA / 0..10V
SERIAL PORTS	1 RS485 - 1 CAN
PROTOCOLS	Modbus RTU CAN Open / Slave

TD710 (7")



TD410 (4,3")

Panel PC

TD750-A

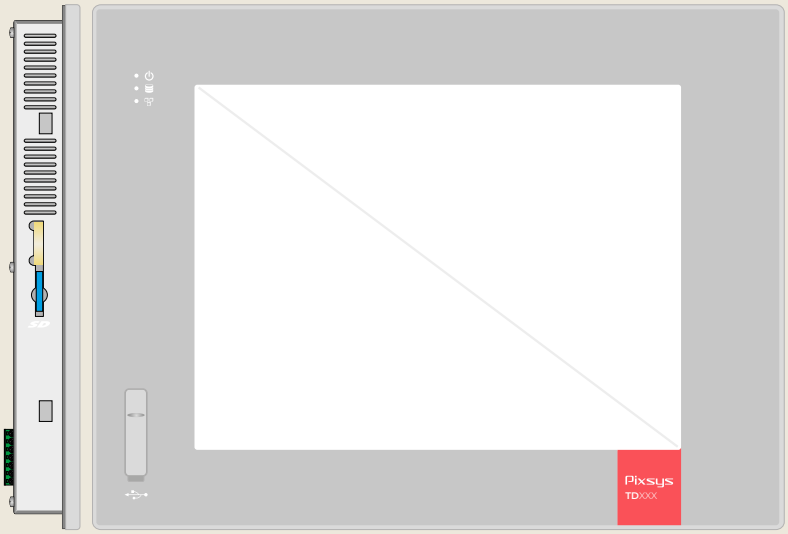
TD860-A

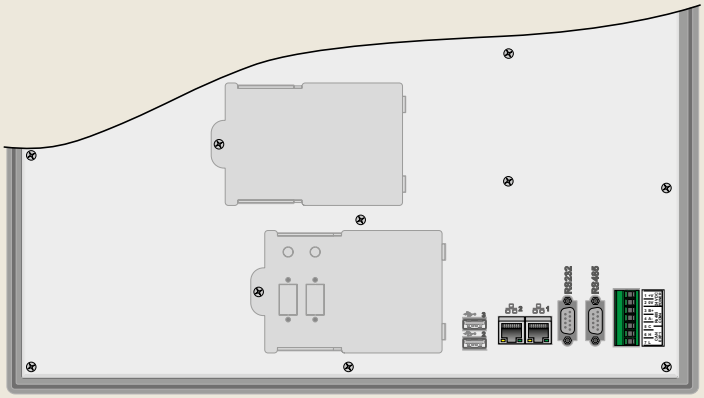
TD900-A

TD910-A

TD920-A

TD750-A	TD860-A	TD900-A	TD910-A	TD920-A
7″ 4/3 TFT 800 x 600	12.1″ 16/9 TFT 1280 x 800	15″ 4/3 TFT 1024 x 768	18.5″ 16/9 TFT 1366 x 768	21.5″ 16/9 TFT 1920 x 1080
Resistive	Resistive	Resistive	Resistive	Resistive
204 x 160 x 34	321 x 254 x 26	435 x 330 x 29	474 x 310 x 29	540 x 353 x 29
181 x 144	302 x 242	416 x 313	460 x 296	525 x 335
24 V DC - 12 W	24 V DC - 20 W	24 V DC - 25 W	24 V DC - 28 W	24 V DC - 32 W
RS232 - RS485 - 3 USB	RS232 - RS485 - 3 USB	RS232 - RS485 - 3 USB	RS232 - RS485 - 3 USB	RS232 - RS485 - 3 USB
10 / 100 Mbit/s	2x 10/100/1000 Mbit/s	2x 10/100/1000 Mbit/s	2x 10/100/1000 Mbit/s	2x 10/100/1000 Mbit/s
○	Mini PCI Express	Mini PCI Express	Mini PCI Express	Mini PCI Express
○	Mini PCI Express	Mini PCI Express	Mini PCI Express	Mini PCI Express
○	○	○	○	○
●	●	●	●	●
Windows® 10 IoT LTSB Enterprise 64bit				
Intel® Celeron® J1900 Quad Core @2.0GHz, 2M Cache				
4 GB DDR3	4 GB DDR3	4 GB DDR3	4/8 GB DDR3	4/8 GB DDR3
SSD Sata 2,5″ 32GB	SSD Sata 2,5″ 64/128GB	SSD Sata 2,5″ 64 / 128 / 256 GB		
●	●	●	●	●
●	●	●	●	●
○	○	○	○	○
●	●	●	●	●
●	●	●	●	●
○	○	○	○	○
●	●	●	●	●
Modbus RTU - Modbus TCP/IP - CAN Open - ADS Twin CAT - B+R System 2000 PVI - S7/TCP - FINS Serial - FINS Ethernet - NJ Ethernet/IP - MELSEC Serial - MELSEC Ethernet - DF1 Protocol - Ethernet/IP				



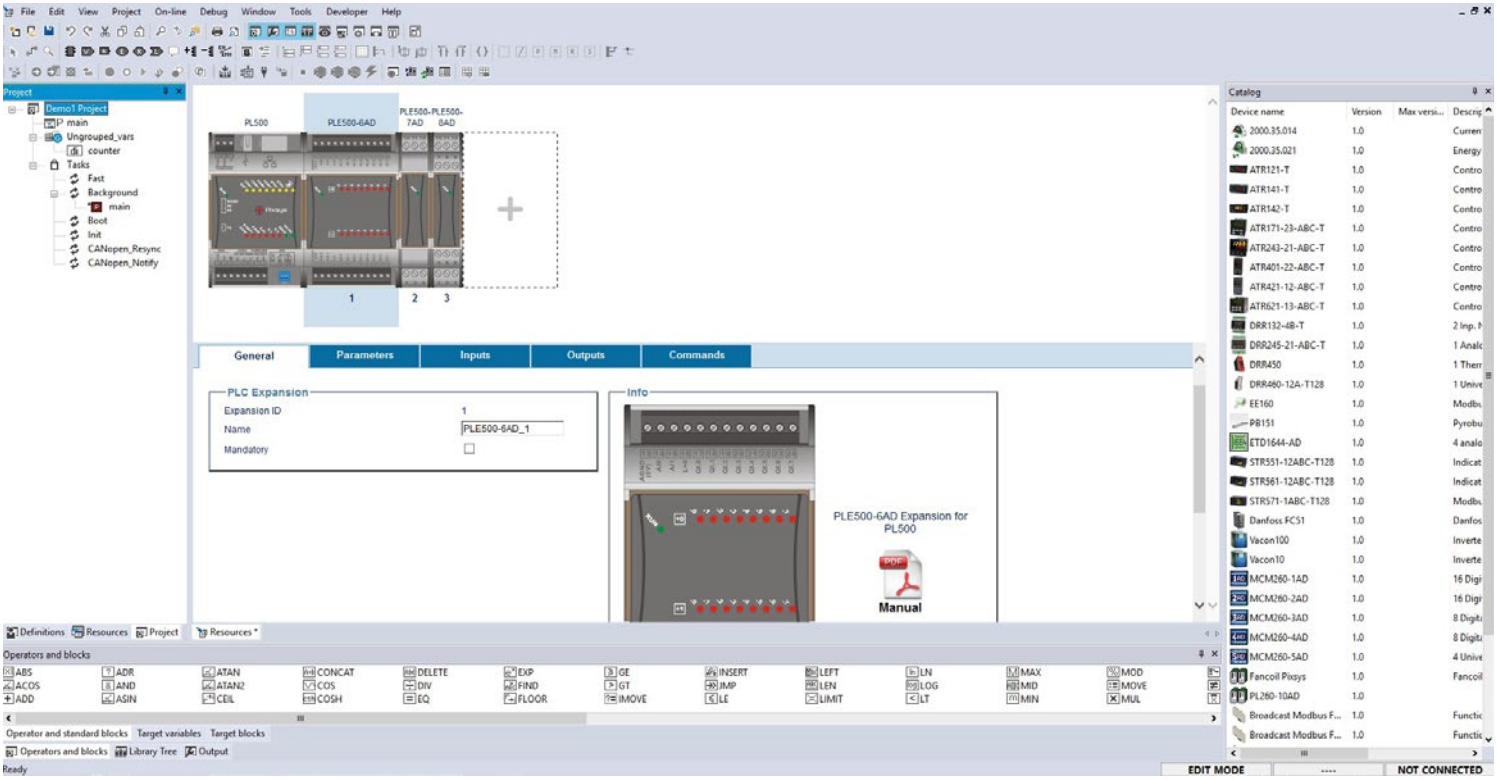


Development environments

Synchronization between LogicLab and Movicon™ development environments is immediate, allowing to share the memory area of the variables in just a few steps.

LogicLab

Soft-plc development environment for Pixsys PLC, HMI and Panel PC
Supporting all 5 programming languages of the standard IEC 61131-3: Instruction List (IL), Structure Text (ST), Ladder Diagram (LD), Function Block Diagram (FDB), Sequential Function Chart (SFC).
Extensive libraries of advanced functions including mathematical operations, rescale, PID, datalogger, recipes, alarms.
Embedded simulator and debugging tools included.
Pixsys devices and controllers may be easily integrated into networks thanks to “Drag and drop” function.



Programming languages in LogicLab (IEC 61131-3)

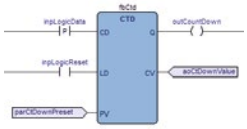
```
LD      TRUE
ANDN    BOOL1
JMPC    label
LDN     BOOL2
ST      ERG

label:

LD      BOOL2
ST      ERG
```

Instruction List (IL)
IL language is a low-level assembly-like programming language. It is deal for programs with few decision points, conditions, and changes in the execution flow. Its use is recommended when the execution time is considered a critical element.

Structured Text (ST)
ST language is a higher-level language, whose syntax resembles that of Pascal. It provides a wide range of language constructs: value assignment, expressions of arbitrary complexity, selection (IF, CASE) and iteration (FOR, WHILE, REPEAT) statements.



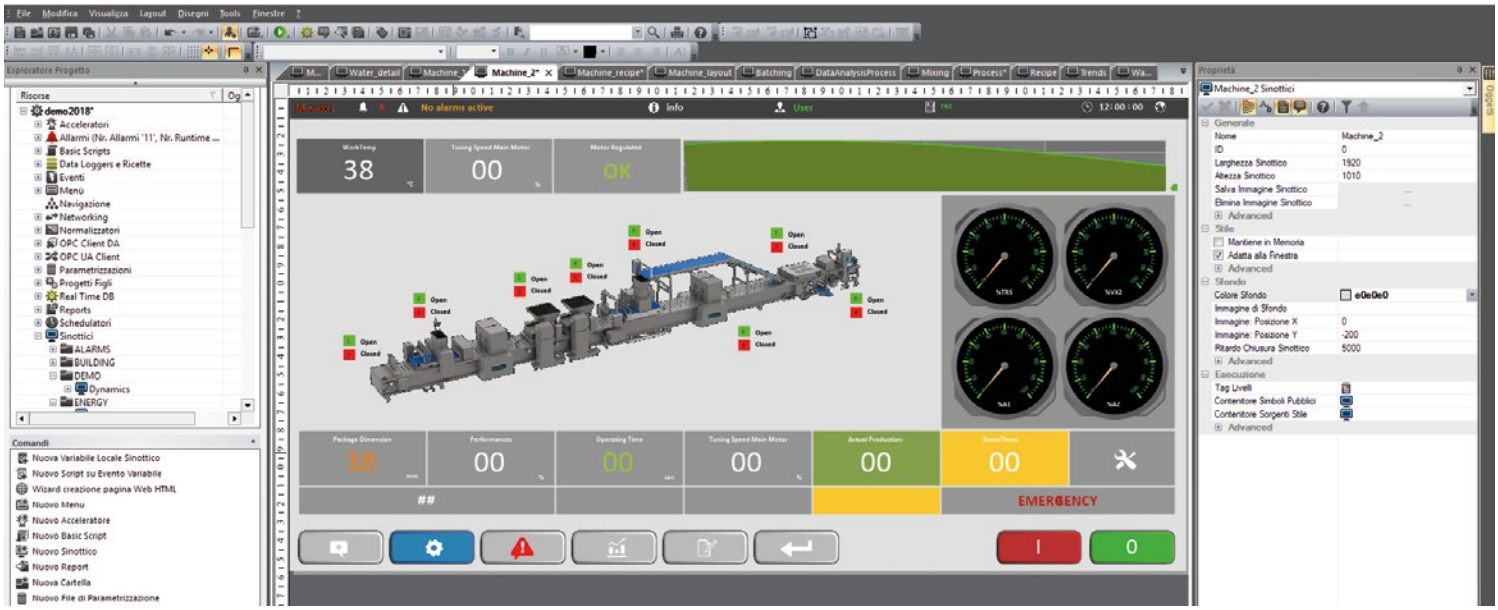
Ladder Diagram (LD)
The representation of a logical sequence by means of LD language starts from relay logic design within the engineering of electric installations.
This representation is particularly suitable for the implementation of operations on digital signals or boolean variables.

Function Block Diagram (FBD)
The basic idea of FBD language is the data flow. In this language values flow from entry to exit points through some blocks. Programs behavior is expressed in terms of interconnected graphic blocks, similarly to wiring diagrams or block diagrams of control systems.

Sequential Function Chart (SFC)
SFC language allows to describe the behavior of a program in terms of states and transitions. This language allows the development of an application by means of the top-down methodology. In fact the SFC schema makes up the structure of the control program, while the single actions and transitions are implemented in any of the IEC 61131-3 languages.

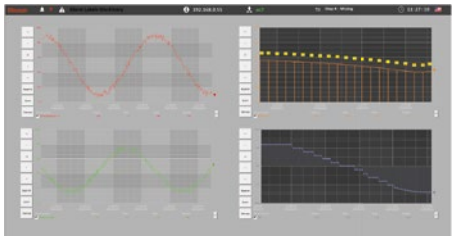
Movicon™ 11

All-in-one development environment for graphics and supervisory on Windows CE and Windows x86/x64. Inbuilt extensive library of symbols and graphical objects for powerful synoptics.
Direct access to PLC variables through the Pixsys programming tool LogicLab and integration of other brand's PLC communication protocols.
It is also possible to create custom logics using editable scripts in VBA language, VB.Net and Instructions list (AWL).



Powerful and all-inclusive Alarm Management
Movicon 11 offers a powerful and totally configurable Alarm management with support to the ISA S-18 normative. Alarms are stored on databases for subsequent chronological or statistical analysis. The Alarm Dispatcher sends notifications to personnel by SMS, Email or Voice Modem Text-to-speech.

Data Recording on DB
Process data can be stored on any relational DB or encrypted using Data Loggers. Data are transparently recorded using ODBC technology to make your project database independent.



Reports, Trends and Data Analysis
Movicon 11 provides powerful analyzing and reporting tools to use no matter where historical data are recorded. Trends, Charts, Tables, Data Analysis and an inbuilt powerful Report Designer are included, offering sophisticated analysis solutions locally and over the web. Historical data analyzing is totally integrated and does not require additional tools, allowing access to any DB, data extraction, chart or table representation. The Report Designer allows to create and manage reports locally.

Pixsys Portal

Pixsys Portal software for remote control and assistance

Pixsys Portal is a software service which allows the direct management of devices equipped with Ethernet.
Pixsys range of HMI, PLC and Panel PC integrates this service which creates an optimised VPN connection for industrial communications, thereby enabling the remote control (remote Desktop, Web Server, data exchange) and assistance (IDE connection) both of Pixsys devices and of third-party devices connected to the same sub-network.
Firewall or static IP settings are not required, instead what is necessary is a standard internet connection via cable or through external devices, such as 4G router with SIM data.
Thanks to Pixsys Portal PC App, it is possible to monitor all associated plants, facilitating the users who need to remotely control the system.

CNV580 - Hub for remote monitoring

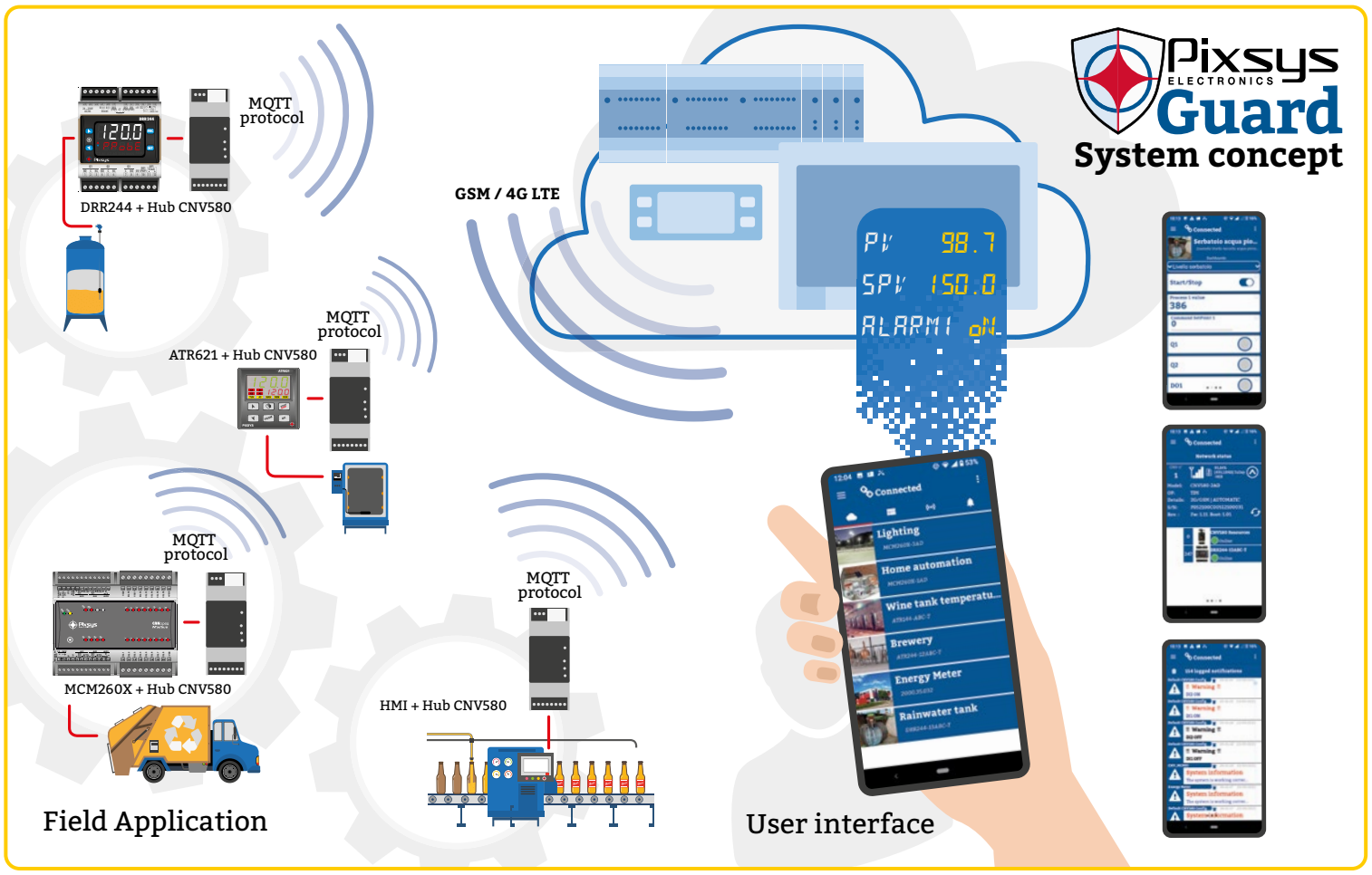
2G 4G

CNV580-1

CNV580-2

CNV580-4

	CNV580-1	CNV580-2	CNV580-4
DIMENSIONS (mm)	2 mod. DIN43880 (DIN rail EN60715) 36 x 90 x 84	2 mod. DIN43880 (DIN rail EN60715) 36 x 90 x 84	2 mod. DIN43880 (DIN rail EN60715) 36 x 90 x 84
POWER SUPPLY	12..24 V DC	12..24 V DC	12..24 V DC
DIGITAL INPUTS	2	2	2
DIGITAL OUTPUTS (PNP)	1	1	1
ANALOGUE INPUTS	1, 4..20 mA	1, 4..20 mA	1, 4..20 mA
RS485 PORTS for Pixsys devices	○	●	
ETHERNET for internet connection	○	○	●
MODEM 2G / 4G	●	●	●
DATA SIM INCLUDED	● (5 years or 500 MB)	● (5 years or 500 MB)	● (5 years or 500 MB)
"Pixsys Guard" APP Google Play App Store	●	●	●



PDR - Variable Frequency Drives - Sensorless

	PDR100	PDR200
POWER RANGE	0,4 - 0,75 - 1,5 - 2,2 kW	0,75 .. 22kW
POWER SUPPLY (input)	200..240V AC 50/60 Hz Single-phase	380..480 V AC 50/60 Hz Three-phase
POWER SUPPLY (output)	0..input V AC Three-phase	0..input V AC Three-phase
OUTPUT FREQUENCY	0,01~400Hz	0,01~400Hz (IM Sensorless: 0,01~120Hz)
ALGORITHM CONTROL	V / f with motor sliding compensation	Vectorial sensorless open-loop control with load/motor autotuning
DIGITAL INPUTS	5 (PNP o NPN)	5 (PNP o NPN), 1 x pulse train 12V/0..32KHz
ANALOGUE INPUTS	1 x potentiometer, 1 x 0..10 V, 1 x 0..10V/4..20mA	1 x potentiometer, 1 x 0..10V, 1 x 0..10V/4..20mA
SAFE INPUTS	○	1 x STO function input (3 wires)
DIGITAL OUTPUTS	2 x relay (1 NC/NO, 1 NO) 250 V AC / 1A	1 x relay (1 NC/NO), 1 x PNP (Open Collector), 1 x pulse train 12V/0..32KHz
ANALOGUE OUTPUTS	1 x 0..10 V	1 x 0..10V/4..20mA
FIELDBUS (built-in)	Modbus RTU su RJ45	Modbus RTU on terminal block and on RJ45
FIELDBUS (option)	○	Ethernet IP, Modbus TCP/IP, CANopen, Profibus DP, Profinet
SEALING	IP20	IP20
CONTROL PANEL (built-in)	LED Keypad with potentiometer	LED Keypad
REMOTE KEYPAD (optional)	(PDR100-OPT-KEY2)	(PDR200-OPT-KEY2)
SMART COPIER (optional)	●	●
INTEGRATION WITH LOGICLAB	●	●
SOFTWARE FEATURES		
TORQUE BOOST	●	●
MOTOR SELF-LEARNING	○	●
PID CONTROL	●	●
PLC FUNCTIONS	○	●
MOTOR SURCHARGE PROTECTION	●	●
ADVANCED ENERGY SAVING OPTIONS	●	●
SAFE TORQUE OFF FUNCTION (STO)	○	●
APPLICATIONS		
PUMPS	●	●
FANS	●	●
COMPRESSORS	○	●
CONVEYOR BELTS	●	●
POSITIONING	●	●
AUTOMATIC MACHINES	●	●

Solid State Relays





	OKPAC	SAL / SU / SUL	SVTA	SIT	SGT
SWITCHING VOLTAGE	24..510 V AC	24..600 V AC	200..480 V AC	24..520 V AC	24..600 V AC
CONTROL VOLTAGE	3,5..30 V DC	3,5..30 V DC	4..20 mA	10..30 V DC 90..240 V AC	8..30 V DC
PROTECTION AGAINST SHORT-CIRCUIT	●	●	○	●	●
PHASES	1	1	3	3	3
RANGE	25A / 60A / 75A 90A / 125A	30A / 50A / 75A	3 x 50A / 3 x 75A 3 x 125A	3 x 22A	3 x 25A / 3 x 50A 3 x 75A / 3 x 125A
APPLICATIONS					
OVENS / FURNACES	●	●	●	●	●
FOOD INDUSTRY	●	●	○	○	●
PACKAGING / PLASTIC INDUSTRY	●	●	○	○	●
COLD CHAIN EQUIPMENT / HVAC	●	●	●	●	●
LABORATORY EQUIPMENT	●	●	●	●	●

Dynisco - Melt pressure transmitters



	ECHO	TPT / PT4 / MDT	VERTEX
PROCESS CONNECTION	1 / 2 - 20 UNF M 14 M 22	1 / 2 - 20 UNF M 14 M 22	1 / 2 - 20 UNF M 14 M 22
POWER SUPPLY	16..30 V DC	16..30 V DC	16..30 V DC
ANALOGUE OUTPUT	mV / V - Volt - mA	mV / V - Volt - mA	mV / V - Volt - mA
SIL2 RELAY OPTION	○	●	●
MERCURY FREE OPTION	●	●	●
APPLICATIONS			
PACKAGING	●	●	●
PLASTIC INDUSTRY	●	●	●

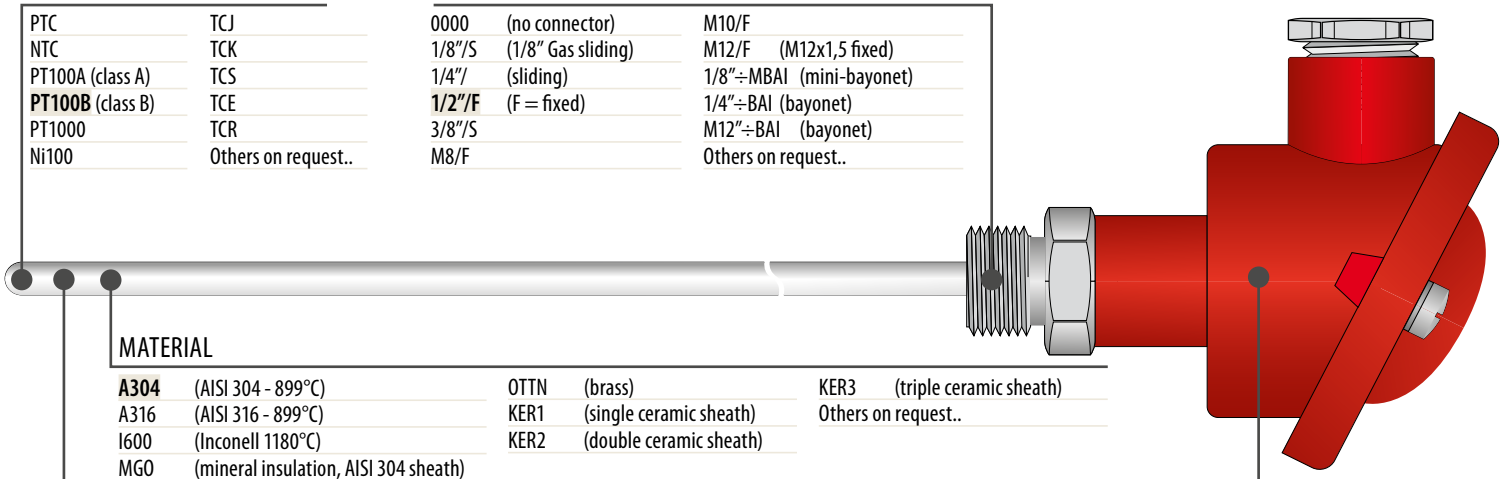
Temperature sensors

SENSOR TYPE

PTC	TCJ
NTC	TCK
PT100A (class A)	TCS
PT100B (class B)	TCE
PT1000	TCR
Ni100	Others on request..

PROCESS CONNECTION

0000	(no connector)	M10/F
1/8"/S	(1/8" Gas sliding)	M12/F (M12x1,5 fixed)
1/4"/	(sliding)	1/8"÷MBAI (mini-bayonet)
1/2"/F	(F = fixed)	1/4"÷BAI (bayonet)
3/8"/S		M12"÷BAI (bayonet)
M8/F		Others on request..



MATERIAL

A304	(AISI 304 - 899°C)	OTTN	(brass)	KER3	(triple ceramic sheath)
A316	(AISI 316 - 899°C)	KER1	(single ceramic sheath)	Others on request..	
I600	(Inconell 1180°C)	KER2	(double ceramic sheath)		
MGO	(mineral insulation, AISI 304 sheath)				

DIAMETER X LENGHT (MM)

4x50	8x150
5x60	15x400
6x15	OC/10x5
8x20	AR/6x100 (air)
6x50	Others on request..
6x100	

HEAD / CABLE

0000	(no head)	x,xPVC	(length, type PVC cable, 30..80°C)
DIN/B		x,xTfe	(length, type Teflon cable, -60..250°C)
DIN/M	(mini DIN)	x,xGOT	(length, type molded plastic cable, -30..105°C)
MCR/90	(ceramic pin 90°)	BA/CER	(ceramic basement)
x,xTTS	(length, type Fiberglass cable, -200..500°C)		
x,xGSC	(length, type Silicon cable, -60..200°C)		

HOT JUNCTION (ONLY FOR TC)

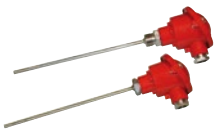
IS	(isolated)	IS(2)	(double isolated)
MS	(grounded)	IS(3)	(double isolated)
SC	(open)	Others on request..	

DIAMETER OF WIRES (ONLY FOR TC)

0,2	0,51	1,29	3,60
0,25	0,81	1,63	
0,35	1,02	2,30	

example of ordering code:

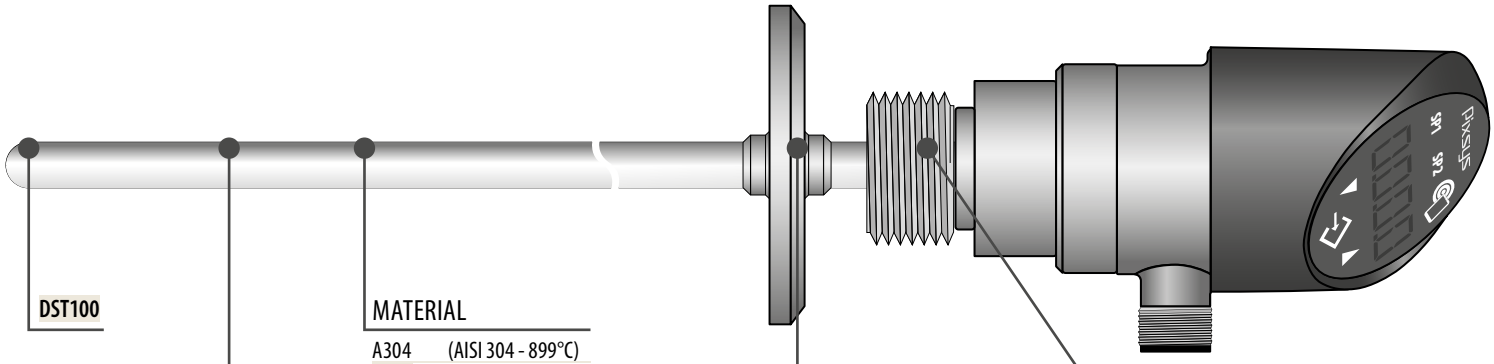
PT100B-6x100-A304-1/2"/F-DIN/B



	PT100 - PT1000	TC K / TC J	PTC / NTC
STEM DIAMETER / DIMENSIONS (mm)	4 - 6 - 8 Ø	6 Ø	6 Ø
MEASURE RANGE	-200..500 °C (TTS cable) -30..105 °C (GOT cable) -40..250 °C (GSC cable)	-200..500 °C (TTS cable) -30..105 °C (GOT cable) -40..250 °C (GSC cable)	-200..500 °C (TTS cable) -30..105 °C (GOT cable) -40..250 °C (GSC cable)
OUTPUT	3 fili	2 fili	2 fili
MATERIALS	AISI 304 or 316	AISI 304 or 316	AISI 304 / silicon
POWER SUPPLY	○	○	○
APPLICATIONS			
FOOD INDUSTRY	●	●	●
PACKAGING / PLASTIC INDUSTRY	●	●	○
FOOTWEAR / LEATHER MACHINERY	○	○	○
OVENS / FURNACES	●	●	○
COLD CHAIN EQUIPMENT / HVAC	●	○	●

For more details and further models visit www.pixsys.net

DST100 - Temperature transmitters with display



DST100

MATERIAL

A304	(AISI 304 - 899°C)
A316	(AISI 316 - 899°C)

DIAMETER X LENGHT (MM)

5x60	6x50
6x15	**6x100**

PROCESS CONNECTION

0000	(no connector)
DN25F0	(DN25 food)
DN25CL	(DN25 clamp)

PROCESS CONNECTION

0000	(no connector)
1/2"/	(sliding)
1/4"/	(sliding)
1/2"/F	(F = fixed)
1/4"/F	(F = fixed)
1/8"/F	(F = fixed)
1/2"/FNPT	(F = fixed)
1/4"/FNPT	(F = fixed)

Others on request..

example of ordering code:

DST100-6x100-A316-1/2"/F

Programmable by RFID /NFC

NEW

	DST100 TEMPERATURE
SENSOR TECHNOLOGY	PT1000
PROCESS CONNECTION	1/2"/ (sliding) 1/4"/ (sliding) 1/2"/F (F = fixed) 1/4"/F (F = fixed) 1/2"/FNPT (F = fixed) 1/4"/FNPT (F = fixed) Others on request..
POWER SUPPLY	15..30 V DC
DISPLAY (Rotation 335°)	●
ANALOGUE OUTPUT	4..20 mA / 0..10 V selectable
DIGITAL PNP OUTPUT	2
"MyPixsys" NFC APP	●
APPLICATIONS	
FOOD INDUSTRY	●
COLD CHAIN EQUIPMENT / HVAC	○
WATER TREATMENT	○
LABORATORY EQUIPMENT	●
PROCESS TECHNOLOGY	●

For more details and further models visit www.pixsys.net

Pressure transmitters

	 ECT INDUSTRIAL TRANSM.	 NAT INDUSTRIAL TRANSM.	 KXTX FLUSH MEMBRANE	 FPT FLUSH MEMBRANE	 ECL SUBMERSIBLE TRANSM.
SENSOR TECHNOLOGY	thick film on ceramic	thin film on steel	thin film on steel	thin film on steel	thick film on ceramic
PROCESS CONNECTION	1 / 4" GAS	1 / 4" GAS	1 / 2" GAS	1 / 2" GAS	○
POWER SUPPLY	9..30 V DC	9..30 V DC	9..30 V DC	9..32 V DC	9..30 V DC
RANGE	0..600 mBar / 0..100 Bar	0..250 Bar / 0..400 Bar	0..100 mBar 0..600 mBar	0..1 Bar / 0..100 Bar	0..200 mBar / 0..2,5 Bar
ANALOGUE OUTPUT	4..20 mA	4..20 mA	4..20 mA	4..20 mA	4..20 mA
DIGITAL PNP OUTPUT	○	○	○	○	○
APPLICATIONS					
FOOD INDUSTRY	○	○	●	●	●
COLD CHAIN EQUIPMENT / HVAC	○	○	○	●	●
LABORATORY EQUIPMENT	●	●	●	●	●
WATER TREATMENT	●	●	●	●	●
PROCESS TECHNOLOGY	●	●	●	●	●

DST400 - Pressure transmitters with display

Programmable by RFID /NFC

	DST400 PRESSURE
SENSOR TECHNOLOGY	thick film on ceramic (≤ 100Bar) thin film on steel (> 100Bar)
PROCESS CONNECTION	1 / 4" GAS Rotation 343°
POWER SUPPLY	15..30 V DC
DISPLAY (Rotation 335°)	●
ANALOGUE OUTPUT	4..20 mA / 0..10 V selectable
DIGITAL PNP OUTPUT	2
"MyPixsys" NFC APP GET IT ON Google Play Available on the iPhone App Store	●
APPLICATIONS	
FOOD INDUSTRY	●
COLD CHAIN EQUIPMENT / HVAC	○
WATER TREATMENT	●
LABORATORY EQUIPMENT	●
PROCESS TECHNOLOGY	●

For more details and further models visit www.pixsys.net

Humidity transmitters

	RH96	EE060 / EE061	EE210 / EE160	EE23
DIMENSIONS (mm)	126 x 20	159 x 12	80 x 80 x 50	90 x 135 x 66
POWER SUPPLY	12..30 V DC	4,5..30 V DC	15..35 V DC 15..38 V AC	15..35 V DC 15..38 V AC
ACCURACY (@ 20°C)	± 5% (15..90% RH)	± 3% (10..90% RH)	± 2% (0..90% RH)	± 1,3% (0..90% RH)
ANALOGUE OUTPUTS (Humidity)	4..20 mA / 0..10 V DC	4..20 mA / 0..1 V	4..20 mA / 0..10 V	4..20 mA / 0..10 V
ANALOGUE OUTPUTS (Temperature)	PT100	PT100	4..20 mA / 0..10 V	4..20 mA / 0..10 V
APPLICATIONS				
FOOD INDUSTRY	●	●	●	○
PACKAGING / PLASTIC INDUSTRY	○	○	○	●
COLD CHAIN EQUIPMENT / HVAC	●	●	●	●
LABORATORY EQUIPMENT	○	●	●	●

IR transmitters

	PC21 - 151 - 301	PYROMINI	PYROUSB	PYRONFC	PYROSIGMA	EXTEMP
MEASURE RANGE	-20..100 °C (L) 0..250 °C (M) 0..500 °C (H)	-20..1000 °C (configurable via RS485)	45..2000 °C (configurable via USB)	0..1000 °C (configurable via NFC)	0..1000 °C (configurable via display)	-20..1000 °C
SPOT	2:1 - 15:1 - 30:1	2:1 - 20:1	15:1 - 25:1 - 75:1	15:1	15:1	2:1 - 15:1 - 30:1
OUTPUT	4..20 mA	RS485 / Modbus RTU	4..20 mA	0..10 V	0..5 V / 0..10 V	4..20 mA
EMISSIVITY	0,95	configurable via RS485	configurable via USB	configurable via NFC	configurable via display	0,95
MATERIALS	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
POWER SUPPLY	9..28 V DC	6..13 V DC	6..24 V DC	6..28 V DC	12..28 V DC	12..24 V DC
DISPLAY	○	○	○	○	●	○
APPLICATIONS						
FOOD INDUSTRY	●	●	●	●	●	●
PACKAGING / PLASTIC INDUSTRY	○	○	○	○	●	○
FOOTWEAR / LEATHER MACHINERY	●	●	●	●	○	●
OVENS / FURNACES	●	●	●	●	●	●

For more details and further models visit www.pixsys.net

Online assistance and support

We value the feedback of our customers on our products. We have set up a range of different communication channels so that customers can reach our technicians for help with programming of their Pixsys devices:

FORUM

This space is reserved to your questions related to set-up, configuration and operating modes for all Pixsys devices. The FAQ area summarizes the most frequent questions. You are kindly invited to consult it before posting your message.

Go to the Forum:
www.forum.pixsys.net

VIDEO - TUTORIALS

Short video-manuals provide descriptions and examples about programming options by keyboard or by Memory Cards, as well as demos of the available software tools. View them on Pixsys YouTube channel!

Youtube channel:
Pixsys srl

TRAINING SESSIONS

Special attention is reserved to technical trainings about the programmable systems (PLCs, HMIs). They are arranged upon request and can be focused on a specific application, as an opportunity to combine theory and practice. Contact our Sales dept for more details.

MAIL

If you prefer direct contact rather than the Forum and the request is not urgent, you can contact technical support via e-mail.Remember that priority is given to requests posted on the Forum so that the information is visible to other users.

Direct contact:
support@pixsys.net

LIVE HELP

A member of the technical support team is available from Monday to Friday, between 15.00 and 17.00 on Skype ID **pixsys.support.** Nevertheless, we kindly ask you to consult first the FAQ section on the Forum where the solution may already be available. Remember also that Manuals can be downloaded from the individual product pages of the website.

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