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	Самара (846)206-03-16	

Единый адрес: psx@nt-rt.ru Веб-сайт: www.pixsys.nt-rt.ru

Панели оператора TD710 PIXSYS. Техническое описание

HMI with integrated soft-PLC, 7" display, resistive touchscreen



Operator panel TD710 is a **touchscreen HMI** running Windows CE. The ARM CORTEX A8 processor and an integrated solid state memory make it suitable for **industrial use**, even in environments in which it may be subject to mechanical disturbances, such as vibrations.

Two serial Buses (RS232 and RS485), an ethernet port 10/100/1000 and a CanOpen bus ensure connectivity to the main field buses. It is possible to directly connect digital I/Os (up to two **ETD1644** expansion boards), creating a complete and compact control system. The USB port, available also on front panel, provides functions such as data exporting, program updates, and peripherals connection.

The entire range of HMI panels with Windows CE features a **programmable soft-PLC** relying on LogicLab development environment (compliant with programming standard IEC-61131), which allows development of control logics in a stand-alone panel, without the support of external PLC modules. The SCADA Movicon 11 CE by Progea softwarehouse is integrated as runtime into Pixsys panels and enables powerful graphics and synoptics, as well as direct interface with the integrated soft-PLC or with third-party PLCs.

User friendly, multimedia support and traceability

For the entire range of Pixsys products we provide technical support for installation, programming and operation via our online forum and via Skype.

Programming tutorial videos are available on our youtube channel.

As for all PIXSYS products, the **QR code** enables traceability of the product over its entire life cycle; the information and documentation online can be also be accessed by scanning the QR CODE with your mobile device to check product's technical specifications and verify its warranty conditions.

Ordering codes

TD710-AD

HMI 7" integrating soft-plc + 1 RS232 + 1 RS485 + 1 CANopen

2400.35.003

Upgrade to Movicon CE Full + Alarm Dispatcher

ETD1644-AD

4 AI + 16 DI/O + 4 AO

MCM260-1AD

16 DO Modbus RTU/CanOpen

MCM260-2AD

16 DI Modbus RTU/CanOpen

MCM260-3AD

8 DI + 8 DO Modbus RTU/CanOpen

MCM260-4AD

8 DI + 8 DO Relays Modbus RTU/CanOpen

MCM260-5AD

4 AI + 2 AO Modbus RTU/CanOpen

Main features

Box

204 x160 (front panel 5,7") x 38

Power supply

12...24 V AC / V DC $\pm 15\%$ 50/60 Hz (galvanic isolation 2500V)

Power Consumption

4,8W

Display

LCD TFT touch screen 7", 800x480 pixel 16 milion colors, (lifetime typ. 20,000 hours @25°C)

Operating conditions

Temperature 0-45 °C, humidity 35..95 uR% (non condensing)

Material

Front panel: aluminium with polycarbonate coverage; Box: chromed steel

Weight

Approx. 937 gr

Sealing

Front panel: IP65 , Box and Terminal blocks: IP20

Expansion module on board (opt. max 2)

4 analogue inputs (res. 16bit) selectable: TC type K, J, S, R (automatic compensation of the cold junction 0..50°C, accuracy @25°C $\pm 0,2\%$ F.S. or ± 1 digit), Thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K), linear inputs 0/4..20mA (40000 points), 0..10V (54000 points), 0..40mV (16000 points), potentiometers F.S. 6/150Kohm (50000 points) – 16 programmable digital I/O, outputs PNP- 3 Encoder Push-Pull res. 32 bit max 80 KHz - 4 programmable analogue outputs mA/Volt

Serial expansions

Pixsys modules MCM260-1/2/3/4/5, Modbus RTU/TCP or CanOpen devices

Hardware features and communication ports

Processor

ARM Cortex A8-1 GHz

Memory

SSD 4 GB/ RAM 512 MB DDR3

Serial communication

RS232-RS485 (1200..115200 Baud) galvanic isolated

Field bus

CAN (70K..1Mbit) galvanic isolated

USB

1 USB 2.0 on frontal + 1 USB 2.0 on black side.

Ethernet

1 Ethernet 10/100 Base-T on RJ45 connector

Memory card

SD/MMC Reader

Software features

Operating system

Windows 7 Embedded Compact

Programming of operating logics

Logiclab, optional choice of languages according to IEC 61131-3

Programming of graphic interface

Movicon 11

Communication protocols

Third parts I/O Driver supported by Movicon, Modbus RTU Master/Slave; Modbus TCT/IP Master/Slave; CAN Open Master; Free-port mode for modems or proprietary devices

Clock

Real-Time clock, Back-up battery

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