

HMI 7" 800x480

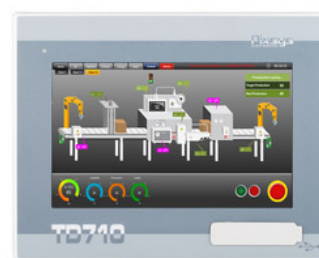
TD710

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 su

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HMI panel tutorial

5/12 Modbus RTU CANOpen Demo: C



Ordering codes

TD710-AD	HMI 7" integrating soft-plc + 1 RS232 + 1 RS485 + 1 CANopen 1 Ethernet + Movicon CE Lite
2400.35.003	Upgrade to Movicon CE Full + Alarm Dispatcher
ETD1644-AD	Plug-in module 16 DI/DO - 4 AI - 4 AO / Power supply 12..24VDC
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

Main features

Box	204 x 160 x 35 mm
Power supply	12...24 V AC / V DC $\pm 15\%$ 50/60 Hz (galvanic isolation 2500V)
Power Consumption	6,5W
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; Box: chromed steel, Ral 7016
Weight	Approx. 937 gr
Sealing	Front panel: IP65 , Box and Terminal bloks: 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	eMMC 4 GB / RAM 512 MB DDR3
Serial communication	RS232 - RS485 (1200..115200 Baud) galvanically isolated
Field bus	CAN (70K..1Mbit)
USB	1 USB 2.0 on frontal + 1 USB 2.0 on back 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	Logiclab, optional choice of languages according to IEC 61131-3

logics 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

Installation

Size and installation

