

HMI 12.1" 1280x800

TD820

HMI with integrated soft-PLC, 12.1" display, resistive touchscreen

Operator panel TD820 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.

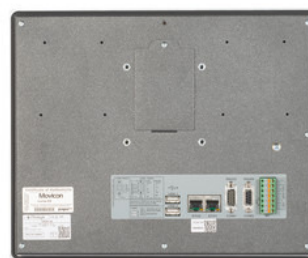
The entire range of HMI panels with Windows CE features a **programmable soft-PLC** relying on LogicLab development environment (compliant with programming standard IEC-61131), which allows development of control logics in a stand-alone panel, without the support of external PLC modules. The SCADA Movicon 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

For the entire range of Pixsys products we provide [tec programming](#) and operation via our [online forum](#) and Programming tutorial videos are available on our [yout](#)

As for all PIXSYS products, the **QR code** enables tracea cycle; the information and documentation online can I CODE with your mobile device to check product's tech conditions.



Ordering codes



TD820-AD	HMI 12.1" integrating soft-p Movicon CE Lite
2400.35.003	Upgrade to Movicon CE Ful
ETD1644-AD	Plug-in module 16 DI/DO - 4 AI - 4 AO / AI/II. 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
MCM260-5AD	4 AI + 2 AO Modbus RTU/CanOpen

Main features

Box	317 x 256 x 35 mm
Power supply	12...24 V AC / V DC ±15% 50/60 Hz (galvanic isolation 2500V)
Power Consumption	8,5 W
Display	LCD TFT touch screen 12.1", 1280x800 pixel, 65k colors with 4 wires resistive touch integrated, (lifetime typ. 12000h @ 25°C)
Operating conditions	Temperature 0-45 °C, humidity 35..95 uR% (non condensing)
Material	Front panel: aluminium; Box: steel 10/10, Ral 7016
Weight	Approx. 937 gr

Expansion module on board
 Serial expansions
 Front panel I/Os: RS-485, RS-422, RS-485, Modbus RTU/TCP or CAN Open devices
 Pixsys modules MCM200-1/2/3/4/5, Modbus RTU/TCP or CAN Open devices
 (ext. max. 2)

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) galvanically isolated
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 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

Installation

