USB — UNIVERSAL SERIAL BUS

RS 232 / 485

Przemysłowy Panel Operatorski HMI 670H

Category:	HMI Operator Interface Panels
Manufacturer:	Mobilator
Color:	BlackGold (optional)Silver (optional)
Processor:	ARM A9 Core 640MHz
Communication protocols:	Freeport(ASCII)Modbus
ROM:	128MB
RAM:	64MB
Screen size:	7"
Resolution:	800x480px
Touchscreen:	4-wire resistive
Graphic Card:	-----
LAN:	No
Bluetooth:	-----
Wi-Fi:	-----
Power:	24V

Supported OS:	Windows CE 7.0
Installed OS:	Windows CE 7.0
Dimensions:	212 x 148 x 40mm
Weight:	~540g
Expansion:	-----
Connectors:	1x USB 2.01x Mini USB1x RS2321x RS485
Fanless:	Yes
Humidity:	20% - 90% non-condensing
Temp:	-20°C - 60°C
Storage Temp:	-20°C - 70°C
IP Norm:	IP65
Contrast Ratio:	400:1
Brightness:	300cd/m²
Color Resolution:	65536
Housing material:	PC/TPU
Power Consumption:	Lower than 3W
Others:	-----
PLC:	No
Digital I/O (PLC):	-----
Analog I/O (PLC):	-----
Output type (PLC):	-----
COM port (PLC):	-----
Temperature sensor (PLC):	-----

723,61 zł
net price: 588,30 zł

OPERATOR PANEL HMI 670HA

IP 65

WIN CE 7.0

CORTEX A8

128MB

RS232/485

7.0" TFT

Specification

Description

Available versions

Protection

Communication

Application

Industrial operator panels also known as control panels are devices that control other electronical devices using convenient and intuitive touch interface. Thanks to its robust design, these devices are suitable for use even in harsh environments. Model 670H has a IP65 standard which classifies and rates the degree of protection provided against intrusion (body parts such as hands and fingers), dust, accidental contact, and water by mechanical casings and electrical enclosures.

Specification

Processor	ARM Cortex A9 640MHz
RAM	64MB
Flash memory	128MB
Connectors	USB 2.0 | USB Slave | RS232 | RS485 | RJ-45 LAN (optional)
System operacyjny	Windows CE 7.0
Communication protocols	Modbus | Freeport (ASCII) | Standard
Dimensions	212x148x40mm
Weight	~540g
Protection	IP65

Check "Available versions" tab to see available configurations of this device. To get more information about this product click "Ask about the product" or use the **Contact form**.

Description

Multitasking OS

HMI is equipped with an operating system from Windows CE family, which ensures maximum efficiency of the device and easily copes with multiple processes simultaneously. Convenient interface makes the operator panels as much intuitive as possible.

Efficient processor

An important advantage of the HMI 670H is a powerful combination of small size with considerable capabilities through the use of the processor family ARM Cortex 8 with 720MHz clock speed, which, combined with 128MB of RAM gives us a powerful, multi-purpose, quality device for a low price.

Small size

HMI 670H is equipped with a 7 inch (154mm x 87mm) screen and the overall size of its design is only 212mm x 148mm x 40mm, with a cutout size of 194mm x 138mm and its weight is only 540 grams. With such a small size it can be used in even if there is not much available space. In addition, HMI has the possiblility to mount it on a wall for the greatest convenience and ease of access.

Solid construction

HMI enclosure is made from a specialized blend of PC / ABS (polycarbonate / acrylonitrile-butadiene-styrene) providing a very high resistance to mechanical damage. With this construction it is ready for use even in extreme conditions such as heat, cold or vibration at any time. In addition, the front panel of the device has IP65 international standard, which confirms the water resistance and a complete protection against dust.
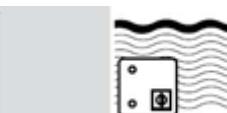
Low power consumption

Using the latest technology, HMI 670H is designed for continuous operation with low power consumption of less than 3W at 24V.

IP65 RESISTANCE

IP stands for Ingress Protection and is essentially a rating system developed by the International Electrotechnical Commission or the IEC. The system is now being used to classify different degrees of protection against intrusion or immersion. The IP rating is usually followed by two digits. The first indicates the level of dust-resistance, the second water resistance. Dust-resistance levels goes from 0 up to 6 while water-resistance goes from 0 to 8.

No protection	0		0	No protection
Protection against any large surface of the body, such as the back of a hand	1		1	Protection against vertically dripping water
Protection from object > 12mm, e.g. Fingers or similar objects	2		2	Protection against vertically dripping water when device is tilted at an angle up to 15 degrees
Protection from object > 2.5mm, e.g tools, thick wires, etc.	3		3	Protection against direct sprays of water when device is tilted at an angle up to 60 degrees
Protection from object > 1mm, e.g. most wires, slender screws, large ants etc.	4		4	Protection from sprays and splashing of water in all directions
Dust protected - Ingress of dust is almost entirely prevented.	5		5	**Protection from low pressure water projected from a nozzle with a 6.3mm diameter opening in any direction**
Dust tight - No ingress of dust, complete protection against contact.	6		6	Protection from water projected in powerful jets from a nozzle with a 12.5mm diameter opening in any direction

—	7	7	Protected from immersion in water with a depth of up to 1 meter (or 3.2ft) for up to 30 mins
—	8	8	Protected from immersion in water with a depth of more than 1 meter

Work temperature	-20 - 60
Storage temperature	-20 - 70
Humidity	20% - 90% (non-condensing)
Dust resistance	IP6x
Water resistance	IPx5

Available versions

Select a version tailored to your needs. Clicking on the hardware number configurations will redirect you to the product with parameters listed below. At the customer's request can be created configurations which are not available in the offer. Detailed parameters are available in the "Technical Data".

	A8 720MHz	A9 640MHz	64MB RAM	128MB RAM	LAN connector	Programming cable
670H	—			—	—	—
670HA		—	—		—	
670HA + LAN		—	—			

Communication

1. GND

2. DC24V -

3. DC24V +

4. LAN (option)

5. RS232

6. RS485

7. USB Slave

8. USB 2.0

MODBUS

Modbus is a serial communications protocol initially for use with programmable logic controllers (PLCs). Simple and robust, it has since become a standard communication protocol, and it is now a commonly available means of connecting industrial electronic devices. Modbus enables communication among many devices connected to the same network, for example a system that measures temperature and humidity and communicates the results to a computer. Modbus is often used to connect a supervisory computer with a remote terminal unit (RTU) in supervisory control and data acquisition (SCADA) systems.

CONNECTOR TYPE	QUANTITY
USB 2.0	1
RS232	1

RS485	1
DC 24V	1
USB Slave	1
LAN (optional)	1

PLC

PLC is a universal microprocessor device designed to control the operation of the machine or technological equipment. PLC must be adapted to the HMI device by introducing into its memory the desired algorithm for operation of the plant. A characteristic feature of the PLC controller distinguishes this from other drivers computer is cyclic circulation of program memory. The algorithm is stored in a dedicated controller programming language. You can change the algorithm by changing the contents of program memory. The driver provided with a suitable number of input circuits gathering information on the object status and requests service and the appropriate number and type of output devices connected to the actuators, signaling or data.

PLC is not included in the standard equipment - it must be purchased separately.

Application

Warehouse

Industrial HMI operator panel can be used to connect multiple devices in the warehouse and make them easier to control. And its robust design is perfectly designed for the harsh conditions prevailing in these areas. Dust or dirt will not prevent this device from working, it will work flawlessly even in polluted environments.

Smart Home

Thanks to the ease v specific tasks, it's wid and mediation betwe processes, giving you situations.

Thanks to its transparent and intuitive touch interface, the HMI device can be easily adapted to the Smart Home, this solution allows you to control functions such as music, heating and air conditioning, from one place. The ideal device for people who like to have everything at your fingertips.

available in the **Technical data** tab.