

# Mobile panel, 24 V DC, 6.5z, TFTcolor, ethernet, RS232, emergency-Stop

Powering Business Worldwide\*

Part no. XVM-430-65TVB-1-11 Article no. 139996

# **Delivery program**

Product range		XVM400 6.5"
Product range		XVM400
Function		НМІ
Display - Type		Color display, TFT
Touch-technology		Membrane keyboard
Number of colours		64 k Colours
Resolution	Pixel	640 x 480
Portrait format		no
Screen diagonal	Inch	6.5
Model		Insulating enclosure and front plate
Operating system		Windows CE 5.0 (licence incl.)
PLC-licence		no PLC function possible
License certificates for onboard interfaces		Can be expanded as required, see Accessories -> License product certificates
built-in interfaces		1 x Ethernet 100base-TX/10base-T 1 x USB host 1 x RS232
Front type		Standard front, 31 membrane keys with tactile feedback, 4 status LEDs
Utilization		Mobile
Memory card automation		required, see Accessories -> Memory cards
Pluggable communication cards (optional)		no
Operating elements		2 acknowledgement keys (3-stage, 2-circuit) external wiring Emergency switching off pushbutton (2-circuit), externally wired
Heat dissipation	W	9.6

# **Technical data**

#### Display

	Color display, TFT
Inch	6.5
Pixel	640 x 480
mm	132 x 99
	64 k Colours
	2 x CCFL Cold cathode tubes
h	Normally 50000
	Touch sensor (glass with foil)
	Resistive-Touch
	2 acknowledgement keys (3-stage, 2-circuit) external wiring Emergency switching off pushbutton (2-circuit), externally wired
	RISC CPU, 32 Bit, 400 MHz
	DRAM (OS, Program and data memory): min. 64 MByte Flash: min. 64 MByte
	Windows CE 5.0 (licence incl.)
	GALILEO
	1 x Ethernet 100base-TX/10base-T 1 x USB host 1 x RS232
	no PLC function possible
	Man a community
	USB 1.1 (12Mbit/s)
	Pixel mm

Ethernet			100Base-TX/10Base-T
Power supply			
Nominal voltage			24 V DC
permissible voltage			Effective: 19.2-30.0 V DC
Voltage dips		ms	≤ 10
Power consumption	P <sub>max</sub> .	W	9.6
Heat dissipation		W	9.6
Note on heat dissipation			Heat dissipation with power consumption for 24 V, all ports and interfaces connected
General			
Housing material			Insulated material black
Front type			Standard front, 31 membrane keys with tactile feedback, 4 status LEDs
Weight		kg	1.3
Degree of protection (IEC/EN 60529, EN50178, VBG 4)			IP65 (at front), IP65 (at rear)
Approvals			
Approvals			cUL (UL508)
Applied standards and directives			
Product standards			EN 50178 EN 61131-2
Mechanical shock resistance		g	according to IEC 60068-2-27 25 Shock duration 11 ms
Vibration			10-57 Hz +- 0.15 mm 9-150 Hz ± 2 g
Environmental conditions			
Temperature			
Operation	9	°C	0 - +50
Storage / Transport	9	°C	-20 - +70
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	+ 50
Relative humidity			

5-95%, non condensing

# Design verification as per IEC/EN 61439

Relative humidity

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	$P_{vid}$	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	$P_{vs}$	W	9.6
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	50
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Please enquire
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Meets the product standard's requirements.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.

10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

### **Technical data ETIM 6.0**

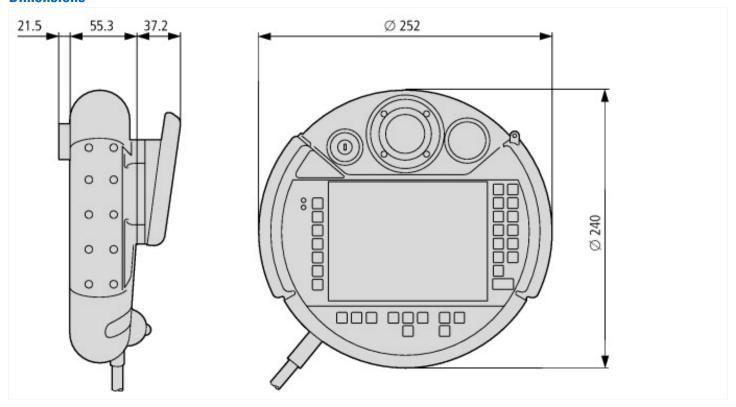
Technical data ETIM 6.0			
PLC's (EG000024) / Mobile panel (EC001427)			
Electric engineering, automation, process control engineering / Control / Oper	rate and Observe (HMI) / N	lobile panel (ecl@ss8.1-27-24-23-03 [BAA723010])	
Supply voltage AC 50 Hz	V	0 - 0	
Supply voltage AC 60 Hz	V	0 - 0	
Supply voltage DC	V	0 - 0	
Voltage type of supply voltage		DC	
Number of HW-interfaces industrial Ethernet		1	
Number of HW-interfaces PROFINET		0	
Number of HW-interfaces RS-232		1	
Number of HW-interfaces RS-422		0	
Number of HW-interfaces RS-485		0	
Number of HW-interfaces serial TTY		0	
Number of HW-interfaces USB		1	
Number of HW-interfaces parallel		0	
Number of HW-interfaces Wireless		0	
Number of HW-interfaces other		0	
Supporting protocol for TCP/IP		Yes	
Supporting protocol for PROFIBUS		No	
Supporting protocol for CAN		No	
Supporting protocol for INTERBUS		No	
Supporting protocol for ASI		No	
Supporting protocol for KNX		No	
Supporting protocol for MODBUS		Yes	
Supporting protocol for Data-Highway		No	
Supporting protocol for DeviceNet		No	
Supporting protocol for SUCONET		No	
Supporting protocol for LON		No	
Supporting protocol for PROFINET IO		No	
Supporting protocol for PROFINET CBA		No	
Supporting protocol for SERCOS		No	
Supporting protocol for Foundation Fieldbus		No	
Supporting protocol for EtherNet/IP		Yes	
Supporting protocol for AS-Interface Safety at Work		No	
Supporting protocol for DeviceNet Safety		No	
Supporting protocol for INTERBUS-Safety		No	
Supporting protocol for PROFIsafe		No	
Supporting protocol for SafetyBUS p		No	
Supporting protocol for other bus systems		Yes	
Radio standard Bluetooth		No	
Radio standard WLAN 802.11		No	
Radio standard GPRS		No	
Radio standard GSM		No	
Radio standard UMTS		No	

1- u ·		
10 link master		No
Type of display		TFT
With colour display		Yes
Number of colours of the display		65536
Number of grey-scales/blue-scales of display		0
Screen diagonal	inch	6.5
Number of pixels, horizontal		640
Number of pixels, vertical		480
Useful project memory/user memory	kByte	64000
With alpha numeric keyboard		No
Number of function buttons, programmable		31
Number of buttons with LED		4
Number of system buttons		31
With enabling button/emergency-stop switch		Yes
With touch screen		Yes
With message indication		Yes
With message system (incl. buffer and confirmation)		Yes
Process value representation (output) possible		Yes
Process default value (input) possible		Yes
With recipes		Yes
Number of password levels		200
Printer output available		Yes
Number of online languages		100
Degree of protection (IP)		IP65
Operation temperature	°C	0 - 50
Suitable for emergency stop		Yes
Connection, pluggable		Yes
Max. height of fall (in accordance with IEC 60068-2-32)	m	1
Suitable for safety functions		No
Width	mm	252
Height	mm	240
Depth	mm	92
Weight	kg	1.3

# **Approvals**

UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking
E176666
NRAQ, NRAQ7
UL report applies to both US and Canada
2252-81, 2252-01
UL recognized, certified by UL for use in Canada
No
No
IEC: IP65, UL/CSA Type: -

# **Dimensions**



# **Additional product information (links)**

L04802025Z	Enclosed	kit informa	tion
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IL04802025Z Enclosed kit information ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL04802025Z2013\_01.pdf

#### MN04802027Z User manual GALILEO, Engineering for XVM400

MN04802027Z Benutzerhandbuch GALILEO, Projektierung für XVM400 - Deutsch

 $ftp://ftp.moeller.net/DOCUMENTATION/AWB\_MANUALS/MN04802027Z\_DE.pdf$ 

MN04802027Z User manual GALILEO, Engineering for XVM400 - English ftp://ftp.moeller.net/DOCUMENTATION/AWB\_MANUALS/MN04802027Z\_EN.pdf