

Touch panel, 24 V DC, 10.4z, TFTcolor, ethernet, RS232, RS485, profibus, PLC



Part no. **XV-152-D8-10TVRC-10**
150612
EL Number **4521157**
(Norway)

Product name	Eaton XV-152 Touch panel
Part no.	XV-152-D8-10TVRC-10
EAN	7640130097261
Product Length/Depth	345 millimetre
Product height	54 millimetre
Product width	260 millimetre
Product weight	2.95 kilogram
Certifications	<ul style="list-style-type: none"> UL 508 EN 50178 CULus CSA Class No.: none Certified by UL for use in Canada UL Category Control No.: NRAQ UL508 CSA File No.: UL report applies to both US and Canada IEC/EN 61131-2 ATEX 94/9/EG: Zone 22, Category 3D (II 3D Ex tc IIIC T70°C IP6x) IEC/EN 61000-6-4 UL 60950 EN 60950 IEC/EN 60950 IEC/EN 61000-6-2 UL File No.: E205091 CUL508 IEC/EN 61000-6-3 IEC/EN 60079-0 (ATEX 94/9/EG: Zone 22, Category 3D (II 3D Ex tc IIIC T70°C IP6x)) UL Security: DNV GL IEC/EN 61241-0 (ATEX 94/9/EG: Zone 22, Category 3D (II 3D Ex tc IIIC T70°C IP6x)) IEC/EN 61131-2, CE IEC/EN 61241-1 (ATEX 94/9/EG: Zone 22, Category 3D (II 3D Ex tc IIIC T70°C IP6x))
Product Tradename	XV-152
Product Type	Touch panel
Product Sub Type	None
Catalog Notes	<p>12 W for basic device + 2.5 W for USB module 4-wire Technology Heat dissipation with power consumption for 24 V License certificates for onboard interfaces not required Optionally with SD card -> article no. 139807 PLC license inclusive</p>
Enclosure material	Metal, anodized
Features	<ul style="list-style-type: none"> UL508, cUL approvals Slot for SD card USB Host Fanless CPU and system cooling, natural convection-based passive cooling Overload proof USB device Portrait format Ethernet interface
Fitted with:	<ul style="list-style-type: none"> 1 x RS232 (built-in interface) Recipes Numeric keyboard Printer output SW interfaces Message indication 1 x USB device (built-in interface) 1 x RS485 (built-in interface) 1 x Ethernet 10/100 Mbps (built-in interfaces) 1 x USB host 2.0 (built-in interface) 1 x PROFIBUS/MPI (built-in interface) Color display Alpha numeric keyboard Message system (incl. buffer and confirmation)
Functions	<ul style="list-style-type: none"> Process default value (input) possible Process value representation (output) possible

		Additional software components, loadable
Battery runtime		Back-up of real-time clock: CR 2032 (190 mA/h), zero maintenance (soldered)
Current consumption		0.6 A, continuous current, Power Supply, 24 V DC
Degree of protection		IP20, rear IP20 NEMA 4X
Degree of protection (front side)		NEMA 4X IP65
Fuse type		Built-in fuse (not accessible)
Lifespan		40,000 h (Service life of back-lighting)
Model		Metal enclosure and front plate
Mounting method		Flush mounting - Inclination from vertical: $\pm 45^\circ$ (if using natural convection) Flush mounting - Clearance: Width x Height x Depth ≥ 30 mm (1.18") Flush mounting
Product category		HMI-PLC (integrated SPS function)
Repetition rate		1 s
Residual ripple		≤ 5 % (input voltage)
RoHs conformity		Yes
Short-circuit protection		No, external fuse FAZ Z3, Supply voltage UAux Yes, Short-circuit rating, SmartWire-DT supply voltage
Software		EPAM, Visualisation software, Engineering XSOF-CODESYS-2, PLC-Programming software, Engineering XSOF-CODESYS-3, PLC-Programming software, Engineering GALILEO, Visualisation software, Engineering XSOF-CODESYS-3, Visualisation software, Engineering XSOF-CODESYS-2, Visualisation software, Engineering
Terminal capacity		0.25 - 1.5 mm ² , flexible with ferrule 24 - 16 AWG, solid or stranded 0.2 - 1.5 mm ² , solid
Voltage type		DC
Shock resistance		Mechanical, According to IEC/EN 60068-2-27
Vibration resistance		According to IEC/EN 60068-2-6
Air pressure		795 - 1080 hPa (operation)
Ambient operating temperature - min		0 °C
Ambient operating temperature - max		50 °C
Ambient storage temperature - min		-20 °C
Ambient storage temperature - max		60 °C
Operating temperature - min		0 °C
Operating temperature - max		50 °C
Relative humidity		10 - 95 % (non-condensing) IEC/EN 50178
Voltage dips		≤ 10 ms from rated voltage (24 V DC) ≤ 10 ms, Bridging voltage dips 5 ms from undervoltage (19.2 V DC)
Inrush current		12.5 A (for 6 ms)
Permissible voltage		18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %) 19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %) 35 V DC (for a duration of < 100 ms) 18.0 - 31.2 V DC, absolute with ripple
Power consumption		9.5 W total 2.5 W (USB Slave to USB Host) Max. 12 W
Rated control supply voltage		24 V DC (UAUX, -20 %/+25 %) 24 V DC (UPOW, -20 %/+25 %)
Rated operational current (I _e)		0.7 A
Rated operational voltage		14.5 V (± 3 % - SmartWire-DT) 24 V DC (power-supply - safety extra low voltage)
Supply current		0.7 A, I _{max} , SmartWire-DT supply 3 A, I _{max} , Supply voltage UAux
Supply voltage at AC, 50 Hz - min		0 V AC

Supply voltage at AC, 50 Hz - max		0 V AC
Supply voltage at DC - min		20.4 V DC
Supply voltage at DC - max		28.8 V DC
Addressing		Address set automatically
Connection		SmartWire-DT blade terminal SWD4-8MF2
Connection type		Push in terminals, Supply voltage SWD: Plug, 8-pole
Data transfer rate		250 kBit/s, SmartWire-DT 125 kBit/s, SmartWire-DT
Interfaces		Ethernet (100Base-TX/10Base-T) USB 2.0 device (not galvanically isolated)
LED indicator		Status indication of SmartWire-DT master: Green and red LEDs Status indication of SmartWire-DT network: Configurable green or red LED Status indication of Supply voltage: LED
Number of slots		1 (for SD-Card)
Number of SmartWire-DT slaves		58
Protocol		EtherNet/IP PROFIBUS Other bus systems TCP/IP MODBUS
Station		SmartWire-DT master, SmartWire-DT network
Display contrast ratio		300:1
Display lighting		Dimmable via software LED
Display size		211 x 158 mm
Display type		TFT Color display, TFT Standard front with standard membrane (fully enclosed)
Luminance intensity		250 cd/m ²
Number of colors of the display		65536
Screen size (diagonal)		10.4 in
Touch technology		Resistive touch Touch sensor (glass with foil), Resistive touch protective screen Glass with film touch sensor
Resolution		640 x 480 px VGA
Explosion safety category for dust		ATEX dust-ex-protection, II 3D Ex II T70°C IP5x: Zone 22, Category 3D ATEX dust-ex-protection, in relation to CE
Potential isolation		Power supply: no Between UPow and 15 V SmartWire-DT supply voltage: no UAUX: no
Protection against polarity reversal		Yes Yes, for supply voltage (Siemens MPI optional)
Backup time		10 years, typ. (time at zero voltage)
Memory		SD Memory Card Slot: SDA Specification 1.00 (External) NVRAM (Retain data): 125 kByte 64 MByte internal DRAM (OS, Program and data memory) NAND-Flash (can be used for data backup): approx. 64 MByte available NOR-Flash: 2 MByte
Memory capacity		64,000 kByte
Operating system		Windows CE 5.0 (license included)
Processor		RISC CPU, 32 Bit, 400 MHz
Equipment heat dissipation, current-dependent Pvid		14.5 W
Heat dissipation capacity Pdis		0 W
Heat dissipation per pole, current-dependent Pvid		0 W
Rated operational current for specified heat dissipation (In)		0 A
Static heat dissipation, non-current-dependent Pvs		14.5 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 8.0

Programmable logic controllers PLC (EG000024) / Graphic panel (EC001412)		
Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Graphic panel (HMI) (ecl@ss10.0.1-27-33-02-01 [AFX016003])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	20.4 - 28.8
Voltage type of supply voltage		DC
Number of HW-interfaces industrial Ethernet		1
Number of interfaces PROFINET		0
Number of HW-interfaces RS-232		1
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		1
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		2
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		1
With SW interfaces		Yes
Supporting protocol for TCP/IP		Yes
Supporting protocol for PROFIBUS		Yes
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 Wi-Fi 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
IO link master		No
Type of display		TFT
With colour display		Yes
Number of colours of the display		65,536
Number of grey-scales/blue-scales of display		0
Screen diagonal	inch	10.4
Number of pixels, horizontal		640
Number of pixels, vertical		480
Useful project memory/user memory	kByte	64,000
With numeric keyboard		Yes
With alpha numeric keyboard		Yes
Number of function buttons, programmable		0
Number of buttons with LED		0
Number of system buttons		1
Touch technology		Resistive touch
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
With printer output		Yes
Number of online languages		100
Additional software components, loadable		Yes
Degree of protection (IP), front side		IP65
Degree of protection (NEMA), front side		4X
Operating temperature	°C	0 - 50
Rail mounting possible		No
Wall mounting/direct mounting		No
Suitable for safety functions		No
Width of the front	mm	345
Height of the front	mm	260
Built-in depth	mm	49