## DATASHEET - XV-102-BE-35TQRC-10

## Touch panel, 24 V DC, 3.5z, TFTcolor, ethernet, SWDT, PLC



Part no.
EL Number (Norway)

XV-102-BE-35TQRC-10 153524 4521127

Product name	Eaton XV-102 Touch panel
Part no.	XV-102-BE-35TQRC-10
EAN	7640130097599
Product Length/Depth	136 millimetre
Product leight	30 millimetre
Product width	100 millimetre
Product weight	0.275 kilogram
Certifications	EN 50178 CUL508 UL 60950 CULus UL508 IEC/EN 61000-6-2 CSA Class No.: none Certified by UL for use in Canada IEC/EN 61131-2 EN 60950 IEC/EN 61000-6-4 UL DNV GL UL File No.: E205091 UL Category Control No.: NRAQ IEC/EN 61131-2, CE CSA File No.: UL report applies to both US and Canada EAC
Product Tradename	XV-102
Product Type	Touch panel
Product Sub Type	None
Catalog Notes	4-wire Technology Heat dissipation with power consumption for 24 V, all ports and interfaces connected If contactors with a total power consumption > 3 A are connected, a power fee module EU5C-SWD-PF1/2 has to be used. License certificates for onboard interfaces not required Optionally with SD card -> article no. 139807 PLC license inclusive
Enclosure material	Plastic
Features	Fanless CPU and system cooling, natural convection-based passive cooling ULS08, cUL approvals Target and web visualization Ethernet interface USB device Overload proof Portrait format Slot for SD card
Fitted with:	Numeric keyboard       1 x USB device (built-in interface)       Message indication       1 x Ethernet 10/100 Mbps (built-in interfaces)       Alpha numeric keyboard       Color display       1 x SmartWire-DT (built-in interface)       Message system (incl. buffer and confirmation)       Recipes       Printer output       SW interfaces
Functions	Process default value (input) possible Additional software components, loadable Process value representation (output) possible SmartWire-DT coordination
Battery runtime	Back-up of real-time clock: CR 2032 (190 mA/h), zero maintenance (soldered)
Degree of protection	IP20 IP20, rear
Degree of protection (front side)	IP65

	NEMA 4X
Fuse type	Built-in fuse (not accessible)
Lifespan	40,000 h (Service life of back-lighting)
Model	Insulating enclosure and front plate
Mounting method	Flush mounting - Clearance: Width x Height x Depth $\ge$ 30 mm (1.18") Flush mounting - Inclination from vertical: ±45° (if using natural convection) Flush mounting
Product category	SmartWire-DT coordinators
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	XSOFT-CODESYS-3, PLC-Programming software, Engineering EPAM, Visualisation software, Engineering GALILEO, Visualisation software, Engineering XSOFT-CODESYS-2, PLC-Programming software, Engineering XSOFT-CODESYS-3, Visualisation software, Engineering XSOFT-CODESYS-2, Visualisation software, Engineering
Terminal capacity	0.25 - 1.5 mm², flexible with ferrule 0.2 - 1.5 mm², solid 24 - 16 AWG, solid or stranded
Туре	Coordinator for the SmartWire-DT communications system
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)
Voltage dips	5 ms from undervoltage (19.2 V DC) ≤ 10 ms, Bridging voltage dips ≤ 10 ms from rated voltage (24 V DC)
Inrush current	12.5 A (for 6 ms)
Permissible voltage	18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %) 18.0 - 31.2 V DC, absolute with ripple 35 V DC (for a duration of < 100 ms) 19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %)
Power consumption	2.5 W (USB Slave to USB Host) 9.5 W total Max. 5 W
Rated control supply voltage	24 V DC (UAUX, -20 %/+25 %) 24 V DC (UPOW, -20 %/+25 %)
Rated operational current (Ie)	0.7 A
Rated operational voltage	14.5 V (± 3 % - SmartWire-DT) Typically UAUX -0.2 V (for 24 V DC slaves) 24 V DC (power-supply - safety extra low voltage)
Supply current	3 A, Imax, Supply voltage UAux If SmartWire-DT modules with a total power consumption > 0.7 A are connected, a power feeder module EU5C-SWD-PF2 has to be used; SmartWire-DT supply 0.7 A, Imax, SmartWire-DT supply
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
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Denotion is binariane   Periode type     Data service type   Periode type     Data service type   Periode type hashs between types     Data service type   Periode type hashs between types     Data service type   Periode types     Data service type   Periode types     Data service types   Periode types     Number of Section types   Periode types     Periode types   Periode types     Display service types   Periode types     Display types <td>Communication interface</td> <td>SmartWire-DT master</td>	Communication interface	SmartWire-DT master
Conscience of a construction of		
Data transform   Stabling-spin     Data transform   25 king-spin     Intransca   Stabling-SpinWrw DT     Bill Indexin   Stabling-SpinWrw DT     Bill Indexin   Stabling-SpinWrw DT     Bill Indexin   Stabling-SpinWrw DT     Number of Samt/We DT atoms   Hord Stabling-SpinWrw DT     Number of Samt/We DT atoms   Hord Stable     Satis in Glasson Samt/We DT atoms   Hord Stable <		
Interaction   Interaction     Interaction   Interaction     Is interaction   Interaction     Number of Security Interaction		SWD: Plug, 8-pole
LBBits of the photon photo	Data transfer rate	
Number of Joiss     Number of Joiss     Protocil       Number of Joiss     Protocil     Protocil       Protocil     Monter of Joiss     Protocil       Status indication of Annyly Valuet, LDD     Protocil     Protocil       Display Valuet, LDD     Protocil     Protocil     Protocil       Display Valuet, LDD     Protocil     Protocil     Protocil     Protocil       Display Valuet, LDD     Protocil     Protocil     Protocil     Protocil     Protocil       Display Valuet, LDD     Protocil     Protocil     Protocil     Protocil     Protocil     Protocil       Display Valuet, LDD     Protocil     Protocil     Protocil     Protocil     Protocil     Protocil     Protocil     Protocil<	Interfaces	
Number of ShareY Were DT shares       9         Protocol       Delay by Systems         Station       Section         Display contrast rates       Section         Section Section Contrast rates       Section         Display contrat	LED indicator	Status indication of SmartWire-DT master: Green and red LEDs
Protocol   Data is is present in the protocol is a convertient of the second is a convertient of	Number of slots	1 (for SD-Card)
Station     MOBBLES       Station     MOBBLES       Display cartest rule     MOBBLES       Display cartest rule     Bolt       Display cartest rule     Color relation, NTT       Muster of colors of the display     Color relation, NTT       Number of colors of the display     Sone       Statest rule     Sone       Resolution     Color relation, NTT       Resolution     Sone       Resolution     Color relation, NTT       Resolution     Sone       Resolution     Sone       Resolution     Sone       Resolution     Sone       Resolution     Sone       Resolution     Sone       Res	Number of SmartWire-DT slaves	99
InspinyImage: set of the set o	Protocol	MODBUS EtherNet/IP
Display lighting     ED     Display lighting       Display lighting     ED     Display lighting       Display lighting     Color display. ITF       Immance intensity     ED       Number of colors of the display     EDS of display. ITF       Streng size disponal     EDS of display. ITF       Turuch technology     EDS of display.       Streng size disponal     EDS of display.       Turuch technology     EDS of display.       Periodicin active scale of display.     EDD of display.       Explained technology     EDD of display.       Problem sofely category for dest     EDD of display.       Explaine sofely category for dest     EDD of display.       Protection actegory for dest     EDD of display.       Resolution     EDD of display.       Pro	Station	SmartWire-DT master, SmartWire-DT network
Display lighting     ID     EDD     Display lighting       Display lighting     Display lighting     Display lighting     Display lighting       Mumber of colors of the display     Display lighting     Display lighting     Display lighting       Stream size (disponal)     Truch technology     Display lighting     Display lighting     Display lighting       Problems sofely category for dest     Display lighting     Display lightin		
Display size       Dimma bit is astroare         Display size       7 % % 3 m         Display size       7 % % 3 m         Display type       Color siglay. TFT TFT TFT         Luminece intrasty       280 cd/m <sup>2</sup> Number of colors of the display       66538         Screen size display.       66538         Touch technology       Touch sensor (Jass with field, Restriet touch protective screen Resolution         Resolution       200 cd/m <sup>2</sup> Resolution       Touch sensor (Jass with field, Restriet touch protective screen Restriet to color, Color         Resolution       200 x 240 pc         Resolution solely category for dust       200 x 240	· · ·	
Display type     Calor display, TT       Lumiance intensity     20 cdrft       Number of colors of the display     5636       Storen size (disposal)     3 in       Touch technology     Sin Samor (Jass with foil, Ressitive touch protective screen Resistive technology       Resolution     Storen size (disposal)       Fapasion safety category for dust     Storen size (Storen size (Storen size)       Fapasion safety category for dust     Storen size (Storen size)       Fapasion safety category for dust     Storen size (Storen size)       Fapasion safety category for dust     Storen size (Storen size)       Fapasion safety category for gas     Storen size (Storen size)       Fapasion safety category for gas     Storen Size)       Fapasing size data)     Storen Size)		Dimmable via software
Luminance intensity     Standard row this standard membrane (fully enclosed)       Luminance intensity     Standard from twith standard membrane (fully enclosed)       Number of colors of the display     Sistem       Screen site (fulgonal)     Sistem       Touch teshology     Sistem in function is ensor       Resolution     Sistem in function is ensor       Rotentis is s		
Luminance intensity       Sinten display       Sinten display         Number of colors of the display       Sisting       Sisting         Streen sic (diagonal)       Touch sechoology       Sinten sechoology         Touch technology       Touch sechoology       Touch sechoology         Resolution       Touch sechoology       Sinten sechoology         Resolution       Touch sechoology       Sinten sechoology         Follosion selety category for dust       Touch sechoology       Sinten sechoology         Follosion selety category for dust       Touch sechoology (DV dust-exprotection, II 3D Ex II 170°C 19%: Zone 22, Category 3D ATEX dust-exprotection according to EN 81241-1 Explosion rotection according to EN 81241-1 Explosion protection according to EN 8	Display type	TFT
Screen size (diagonal)     35 in       Touch technology     Touch sensor (diss with full, Resistive touch protective screen Resistive touch glass with film touch sensor       Resolution     Resolution       Explosion safety category for dust     Resolution       Explosion safety category for gas     Resolution       Potential isolation     Resolution       Potential isolation     Resolution       Potential isolation     Resolution       Potential isolation     Resolution       Resolution against polarity reversal     Yes       Resolution     Yes       Resolution     Yes       Resolution against polarity reversal     Yes       Renory capacity     Yes       Resolution     Yes       Renory capacity     Yes       Resolution     Yes       Resolution against polarity reve	Luminance intensity	
Touch technology     Touch sensor (glass with foil), Resistive touch protective screen Resistive touch Resistout Resistout Resistive touch Resistive touch Resistive	Number of colors of the display	65536
And the second of the secon	Screen size (diagonal)	3.5 in
Automation       Automation       Automation         Explosion safety category for dust       FAE dust-ex-protection, in relation to CE         Explosion safety category for gas       Fate dust-ex-protection, in relation to CE         Explosion safety category for gas       Fate dust-ex-protection, in relation to CE         Potential isolation       Supply voltage (bioin protection according to EN \$121-1 Explosion protection according to EN \$1241-1 Explosion protection according to EN \$1241-1         Potential isolation       Supply voltage (bioins matcording to EN \$1241-1         Protection against polarity reversal       Yes         Protection against polarity reversal       Yes         Backup time       10 years, typ. (time at zero voltage)         Memory       22 KByte internal NNRAM (restand data)         Processor       Singly voltage (Siemens MPI optional)         Processor       Single Yes         Feynometh text dissipation, current-dependent Pvid       Kes         Heat dissipation, current-dependent Pvid       Single Yes         Restore protection according to EN \$1241-1       Single Yes         Single Yes       Single Yes         Restore protection according to EN \$1241-1       Single Yes         Protection against polarity reversal       Single Yes         Protection against pol	Touch technology	Resistive touch
ATEX dust-ex-protection, in relation to CE       Explosion safety category for gas     ATEX dust-ex-protection, in relation to CE       Explosion safety category for gas     Explosion protection according to EN 8029-0       Potential isolation     Section according to EN 8029-0       Protection against polarity reversal     Between UPw outlage (Siemens MPI optional)       Protection against polarity reversal     Yes       Backup time     10 years, typ. (time at zero voltage)       Memory     32 kByte internal NND-RBAM (retained data)       Yumay     32 kByte internal NND-RBAM (retained data)       Operating system     4400 kByte       Operating system     Honowy Caro Solic Sol Sol Sol Solic Caro according to a backup)       Felgipment heat dissipation, current-dependent Pvid     Sw       Heat dissipation protection according to a backup     Sw       Italia solation current-dependent Pvid     Sw       Retat dissipation, non-current-dependent Pvid     Sw       Retat dissipation, non-current-dependent Pvid     Image: Sw       Retat dissipation, non-current-dependent Pvid     Sw       Retat dissipation, non-current-dependent Pvid     Sw       Retat dissipation, non-current-dependent Pvid     Sw       Retat dissipation protecoresitation     Gettin product sta	Resolution 4	
Potential isolation     Supply voltage UAUX: no       Protection against polarity reversal     Yes       Protection against polarity reversal     Yes       Backup time     10 years, typ. (time at zero voltage)       Backup time     10 years, typ. (time at zero voltage)       Memory     25 Memory Carlson (Carlson (	Explosion safety category for dust	
Protection against polarity reversal     Pese Yes for supply, no       Protection against polarity reversal     Yes Yes Yes (for supply voltage (Siemens MPI optional))       Backup time     10 years, typ. (time at zero voltage)       Memory     32 kByte internal NVRAM (retained data)       SD Memory Card Slot SDA Specification 1.00 (External)     32 kByte internal NVRAM (retained data)       Operating system     64,000 kByte       Processor     Kindows CE 5.0 (license included)       Equipment heat dissipation, current-dependent Pvid     5W       Heat dissipation current-dependent Pvid     5W       Heat dissipation non-current-dependent Pvid     0W       Rated operational current for specified heat dissipation (In)     0A       Static heat dissipation, non-current-dependent Pvid     6A       10.2.2 Corrosion resistance     5W       10.2.3.1 Verification of thermal stability of enclosures     5W	Explosion safety category for gas	Explosion protection according to EN 60079-0
International State Processor     Yes, for supply voltage (Siemens MPI optional)       Beckup time     10 years, typ. (time at zero voltage)       Memory     32 kByte internal NVRAM (retained data) SD Memory Card Slot: SDA Specification 1.00 (External) Y28 MByte internal NANA (retained data)       Memory capacity     64,000 kByte       Operating system     Windows CE 5.0 (license included)       Processor     Nindows CE 5.0 (license included)       Equipment heat dissipation, current-dependent Pvid     SW       Heat dissipation capacity Pdiss     SW       Rated operational current for specified heat dissipation (In)     SW       Rated operational current dependent Pvid     SW       Static heat dissipation, non-current-dependent Pvis     SW       10.22 Corrosion resistance     SW       10.22 Lorosion resistance     West the product standard's requirements.	Potential isolation	Between UPow and 15 V SmartWire-DT supply voltage: no
Memory     22 kByte internal NVRAM (retained data)       SD Memory Card Slot: SDA Specification 1.00 (External)       Memory capacity     64 MByte internal NAND-Flash (can be used for data backup)       Operating system     64,000 kByte       Operating system     810 KByte       Processor     RISC CPU, 32 Bit, 400 MHz       Equipment heat dissipation, current-dependent Pvid     5W       Heat dissipation capacity Pdiss     0W       Heat dissipation, non-current-dependent Pvid     0W       Rated operational current for specified heat dissipation (In)     0A       Static heat dissipation, non-current-dependent Pvid     0A       10.22 Corrosion resistance     0W       10.23.1 Verification of thermal stability of enclosures     Meters the product standard's requirements.	Protection against polarity reversal	
Memory capacity     SD Memory Card Slot: SDA Specification 1.00 (External)       Memory capacity     64,000 kByte internal DRAM (0S, Program and data memory)       Operating system     64,000 kByte       Processor     Windows CE 5.0 (license included)       Function     RISC CPU, 32 Bit, 400 MHz       Equipment heat dissipation, current-dependent Pvid     SW       Heat dissipation per pole, current-dependent Pvid     SW       Rated operational current for specified heat dissipation (In)     04       Static heat dissipation, non-current-dependent Pvis     SW       10.2.2 Corrosion resistance     SW       10.2.3 LVerification of thermal stability of enclosures     Mets the product standard's requirements.	Backup time	10 years, typ. (time at zero voltage)
Operating system     Windows CE 5.0 (license included)       Processor     RISC CPU, 32 Bit, 400 MHz       Equipment heat dissipation, current-dependent Pvid     5 W       Heat dissipation capacity Pdiss     0 W       Heat dissipation per pole, current-dependent Pvid     0 W       Static heat dissipation, non-current-dependent Pvs     0 A       10.2.2 Corrosion resistance     5 W       10.2.3 LVerification of thermal stability of enclosures     Mets the product standard's requirements.	Memory And	SD Memory Card Slot: SDA Specification 1.00 (External) 128 MByte internal NAND-Flash (can be used for data backup)
Processor     RISC CPU, 32 Bit, 400 MHz       Equipment heat dissipation, current-dependent Pvid     SW       Heat dissipation capacity Pdiss     SW       Heat dissipation pr pole, current-dependent Pvid     SW       Rated operational current for specified heat dissipation (In)     OM       Static heat dissipation, non-current-dependent Pvs     SW       102.2 Corrosion resistance     SW       102.3.1 Verification of thermal stability of enclosures     SW	Memory capacity	64,000 kByte
Equipment heat dissipation, current-dependent Pvid     Mathematical Stream (Stream (	Operating system	Windows CE 5.0 (license included)
Heat dissipation capacity Pdiss     OW       Heat dissipation per pole, current-dependent Pvid     OW       Rated operational current for specified heat dissipation (In)     OA       Static heat dissipation, non-current-dependent Pvs     OA       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.	Processor	RISC CPU, 32 Bit, 400 MHz
Heat dissipation per pole, current-dependent PvidORated operational current for specified heat dissipation (In)OStatic heat dissipation, non-current-dependent PvsO10.2.2 Corrosion resistanceMeets the product standard's requirements.10.2.3.1 Verification of thermal stability of enclosuresMeets the product standard's requirements.	Equipment heat dissipation, current-dependent Pvid	5 W
Rated operational current for specified heat dissipation (In)     OA       Static heat dissipation, non-current-dependent Pvs     SW       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.	Heat dissipation capacity Pdiss	0 W
Static heat dissipation, non-current-dependent Pvs     5W       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.	Heat dissipation per pole, current-dependent Pvid	0 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.	Rated operational current for specified heat dissipation (In)	0 A
10.2.3.1 Verification of thermal stability of enclosures   Meets the product standard's requirements.	Static heat dissipation, non-current-dependent Pvs	5 W
	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulation materials to normal heat Maats the product standard's requirements	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
Meets die ploudet stalldard 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**

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		0		
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		1		
With SW interfaces		Yes		
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 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	3.5
Number of pixels, horizontal		320
Number of pixels, vertical		240
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	136
Height of the front	mm	100
Built-in depth	mm	25