

Back-up of real-time clock
Accuracy of the real-time clock

$\begin{tabular}{ll} \textbf{Communication module/power supply unit for remote text display,} \\ \textbf{100-240VAC, easy800/EC4P/ES4P} \end{tabular}$



Part no. MFD-AC-CP4-800 Article no. 286824

Delivery program			
Product range			Multi-function-display MFD-Titan
Basic function			Power supply unit/CPU modules
Description			Degree of protection IP20 With connection cable (5 m, can be cut to length)
Supply voltage			100 - 240 V AC
For use with			easy800 ES4P
Instructions			can be combined with display/operating unit MFD-80as stand-alone display
Technical data			
General			
Standards			EN 61000-6-1/-2/-3/-4, IEC 60068-2-6, IEC 60068-2-27
Dimensions (W x H x D)		mm	107.5 x 90 x 30
Weight		kg	0.145
Mounting			Fitted on the fixing shaft of the display or on top-hat rail according to IEC/EN 60715 35 mm deep (without display)
Terminal capacities			
Solid		mm^2	0.2/4 (AWG 24 - 12)
Flexible with ferrule		mm ²	0.2/2.5 (AWG 24 - 12)
Standard screwdriver		mm	3.5 x 0.6
Climatic environmental conditions			
Operating ambient temperature		°C	-25 to 55, cold as per IEC 60068-2-1, heat as per IEC 60068-2-2
Condensation			Take appropriate measures to prevent condensation
Storage		°C	- 40 - 70
Relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5 - 95
Air pressure (operation)		hPa	795 - 1080
Ambient conditions, mechanical			
Protection type (IEC/EN 60529, EN50178, VBG 4)			IP20
Vibrations (IEC/EN 60068-2-6)		Hz	
Constant amplitude 0.15 mm		Hz	10 - 57
Constant acceleration 2 g		Hz	57 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms		Impacts	18
Drop to IEC/EN 60068-2-31	Drop height	mm	50
Free fall, packaged (IEC/EN 60068-2-32)		m	1
Mounting position			Vertical or horizontal
Electromagnetic compatibility (EMC)			
Electrostatic discharge (IEC/EN 61000-4-2, Level 3, ESD)		kV	
Air discharge		kV	8
Contact discharge		kV	6
Electromagnetic fields (RFI) to IEC EN 61000-4-3		V/m	10
Radio interference suppression			EN 55011 Class B, EN 55022 Class B
Burst Impulse (IEC/EN 61000-4-4, Level 3)			
Supply cable		kV	2
Signal lines		kV	2
Immunity to line-conducted interference to (IEC/EN 61000-4-6)		V	10
Insulation resistance			
Clearance in air and creepage distances			EN 50178, UL 508, CSA C22.2, No. 142
1 1			EN 50178

s/day

Normally ±5 s/day (±0.5 h/Year)

Repetition accuracy of timing relays

Accuracy of timing relays (of values)	%		± 0.02
Resolution			
Range "S"	ms	s	5
Range "M:S"	s		1
Range "H:M"	mir	in	1

Retentive memory

Power supply

Rated operational voltage	U _e	V	100/110/115/120//230/240 AC (+10/-15 %)
Admissible range		V AC	85 264
Frequency		Hz	5060 (± 5%)
Input current			
at 115/120 V AC 60 Hz		mA	Normally 90
at 230/240 V AC 50 Hz		mA	Normally 60
Power loss			
Heat dissipation at 24 V DC		W	17
at 115/120 V AC		VA	Normally 11
at 230/240 V AC		VA	Normally 15

Network easyNet

Total out out of the control of the		
Stations	Number	max. 8
Data transfer rate/distance		1000 kBit/s, 6 m 500 Kbit/s, 25 m 250 Kbit/s, 40 m 125 kBit/s, 125 m 50 Kbit/s, 300 m 20 Kbit/s, 700 m 10 Kbit/s, 1000 m
Distance	m	5
Potential isolation		
From power supply		Yes
From the inputs		Yes
to PC interface, memory card, easyNet, easyLink		Yes
Bus termination (first and last station)		Yes
Connection technique		RJ45, 8-pole

Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipation In A 0 Heat dissipation per pole, current-dependent P _{vid} W 0 Equipment heat dissipation, current-dependent P _{vid} W 0 Static heat dissipation, non-current-dependent P _{vs} W 17 Heat dissipation capacity P _{diss} W 0 Operating ambient temperature min. °C -25 Operating ambient temperature max. °C 55	Design verification as per 120/214 01733			
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10.2.7 Inscriptions Meets the product standard's requirements.	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.
10.3 Degree of protection of ASSEMBLIES Meets the product standard's requirements.	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

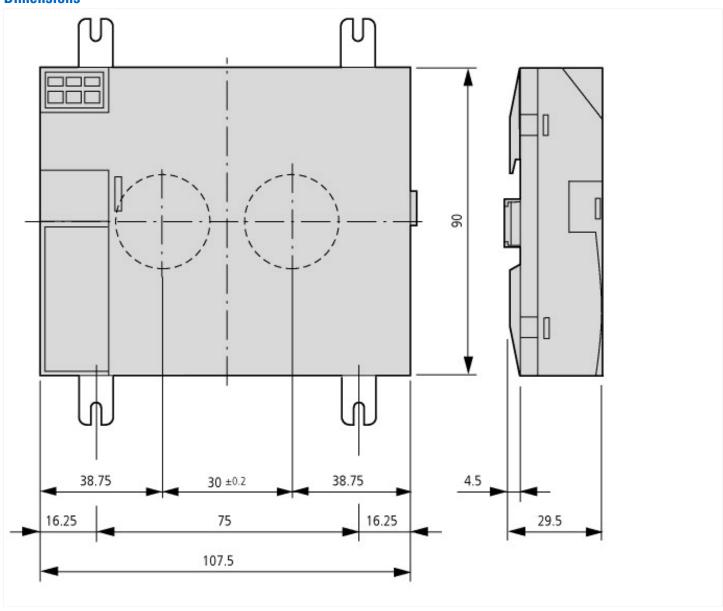
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Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work No Supporting protocol for DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No	Supporting protocol for SERCOS		No
Supporting protocol for AS-Interface Safety at Work 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 No	Supporting protocol for Foundation Fieldbus		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 No	Supporting protocol for EtherNet/IP		No
Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No	Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No	Supporting protocol for DeviceNet Safety		No
Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems No	Supporting protocol for INTERBUS-Safety		No
Supporting protocol for other bus systems No	Supporting protocol for PROFIsafe		No
	Supporting protocol for SafetyBUS p		No
Radio standard Bluetooth No	Supporting protocol for other bus systems		No
	Radio standard Bluetooth		No

Radio standard GPRS No Radio standard UNTS No 10 link master No Yoe of display LCD with background illumination Number of display lines LCD with background illumination Number of characters per line Image: Market actar height, display Max. character height, display mm 32 Useful project memory/user memory May 1 No With alpha numeric keyboard No No With alpha numeric keyboard No No Number of function buttons, programmable No No Number of system buttons No No Number of system buttons No No Number of system buttons programmable No No Number of system buttons No No With message system (incl. buffer and confirmation) No No Process value ropresentation (output) possible No No Printer cutput available No No Number of password levels No No Printer output available No			
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Number of display lines 4 Number of characters per line mm 32 Mex. character height, display mm 32 Useful project memory/user memory kByte 0 With numeric keyboard No No Number of function buttons, programmable 4 4 Number of buttons with LED 0 0 Number of buttons with LED 6 9 With message indication 7 4 With message system (incl. buffer and confirmation) 8 7 Process value representation (output) possible 7 8 Process default value (input) possible 7 8 With recipes 1 1 Number of password levels 1 1 Printer output available 1 1 Number of online languages 1 1 Degree of protection (IP), front side 1 16 Operation temperature 2 25 - 55 Graphic objects presentable No 1 Suitable for safety functions	IO link master		No
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With numeric keyboard No With alpha numeric keyboard 10 Number of function buttons, programmable 4 Number of buttons with LED 0 Number of system buttons 0 With message indication Yes With message system (incl. buffer and confirmation) No Process value representation (output) possible Yes With recipes No With recipes No Number of password levels 1 Printer output available No Number of online languages 13 Degree of protection (IP), front side 1P65 Operation temperature *C 25 -55 Graphic objects presentable No No Suitable for safety functions Mn 85 Width of the front mm 865	Max. character height, display	mm	32
With alpha numeric keyboard Number of function buttons, programmable Number of buttons with LED Number of system buttons With message indication With message system (incl. buffer and confirmation) Process value representation (output) possible Process default value (input) possible With recipes No No No Protest default value (input) possible With recipes No No No No No No No No No N	Useful project memory/user memory	kByte	0
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Printer output available No Number of online languages 13 Degree of protection (IP), front side Operation temperature Orc Graphic objects presentable Suitable for safety functions Width of the front Meight of the front Meight of the front No	With recipes		No
Number of online languages Degree of protection (IP), front side Operation temperature C -25 - 55 Graphic objects presentable Suitable for safety functions Width of the front Meight of the front Meight of the front I a 1 No No No No Meight of the front Mm 86.5	Number of password levels		1
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Operation temperature °C -25 - 55 Graphic objects presentable No Suitable for safety functions No Width of the front mm 86.5 Height of the front mm 86.5	Number of online languages		13
Graphic objects presentable Suitable for safety functions Width of the front Height of the front No Machine Sec.5 Machin	Degree of protection (IP), front side		IP65
Suitable for safety functions No Width of the front mm 86.5 Height of the front mm 86.5	Operation temperature	°C	-25 - 55
Width of the front mm 86.5 Height of the front mm 86.5	Graphic objects presentable		No
Height of the front mm 86.5	Suitable for safety functions		No
	Width of the front	mm	86.5
Built-in depth mm 36.2	Height of the front	mm	86.5
	Built-in depth	mm	36.2

Approvals

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Product Standards	IEC/EN see Technical Data; UL 508; CSA C22.2 No. 142-M1987; CSA C22.2 No. 213- M1987; CE marking
UL File No.	E135462
UL Category Control No.	NRAQ
CSA File No.	012528
CSA Class No.	2252-01 + 2258-02
North America Certification	UL listed, CSA certified
Degree of Protection	IEC: IP20, UL/CSA Type: -

Dimensions



Additional product informat	tion (links)		
Instruction leaflet "power supply unit, commu	nication module" IL05013018Z (AWA2528-2175)		
Instruction leaflet "power supply unit, communication module" IL05013018Z (AWA2528-2175)	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05013018Z.pdf		
Manual "MFD-CP4, power supply unit/communication module" MN05013011Z (AWB2528-1548)			
Manual "MFD-CP4, power supply unit/ communication module" MN05013011Z (AWB2528-1548) - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05013011Z_DE.pdf		
Manual "MFD-CP4, power supply unit/ communication module" MN05013011Z (AWB2528-1548) - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05013011Z_EN.pdf		