



Communication module/power supply unit for remote text display, 24 V DC, easy800/EC4P/ES4P



**Part no.** MFD-CP4-800  
**Catalog No.** 274095  
**EL-Nummer (Norway)** 4519714

**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		24 V DC
For use with		easy800 ES4P
Instructions		can be combined with display/operating unit MFD-80...as 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	75 x 58 x 36.2
Weight	kg	0.164
Mounting		Fitted onto the fixing shaft of the display

**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**

Pollution degree		2
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
Power pulses (surge) (IEC/EN 61000-4-5)	kV	2 (supply cables, symmetrical)
power pulses (surge) (IEC/EN 61000-4-5, level 2)	kV	0.5 (supply cables, symmetrical)
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
Insulation resistance		EN 50178

## Power supply

Rated operational voltage	$U_e$	V	24 DC (-15/+20 %)
Admissible range		V DC	20.4 - 28.8
Residual ripple		%	$\leq 5$
Input current			
at 24 V DC		mA	Normally 185
Voltage dips		ms	10
Power loss			
Heat dissipation at 24 V DC		W	1.5
Note on heat dissipation			Current consumption at 24 V DC

## Network easyNet

Stations		Number	max. 1
easy500, easy700		MBit/s	9.6 Kbit/s
easy800, MFD, EC4P			19.2 kBaud
Distance		m	5
Potential isolation			
From power supply			Yes
From the connected device			Yes
Connection technique			Spring-loaded terminals

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	$I_n$	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	1.5
Heat dissipation capacity	$P_{diss}$	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			
10.2.3.1 Verification of thermal stability of enclosures			
10.2.3.2 Verification of resistance of insulating materials to normal heat			
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			
10.2.4 Resistance to ultra-violet (UV) radiation			
10.2.5 Lifting			
10.2.6 Mechanical impact			
10.2.7 Inscriptions			
10.3 Degree of protection of ASSEMBLIES			
10.4 Clearances and creepage distances			
10.5 Protection against electric shock			
10.6 Incorporation of switching devices and components			
10.7 Internal electrical circuits and connections			
10.8 Connections for external conductors			
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			
10.9.3 Impulse withstand voltage			
10.9.4 Testing of enclosures made of insulating material			
10.10 Temperature rise			
10.11 Short-circuit rating			
10.12 Electromagnetic compatibility			
10.13 Mechanical function			

## Technical data ETIM 7.0

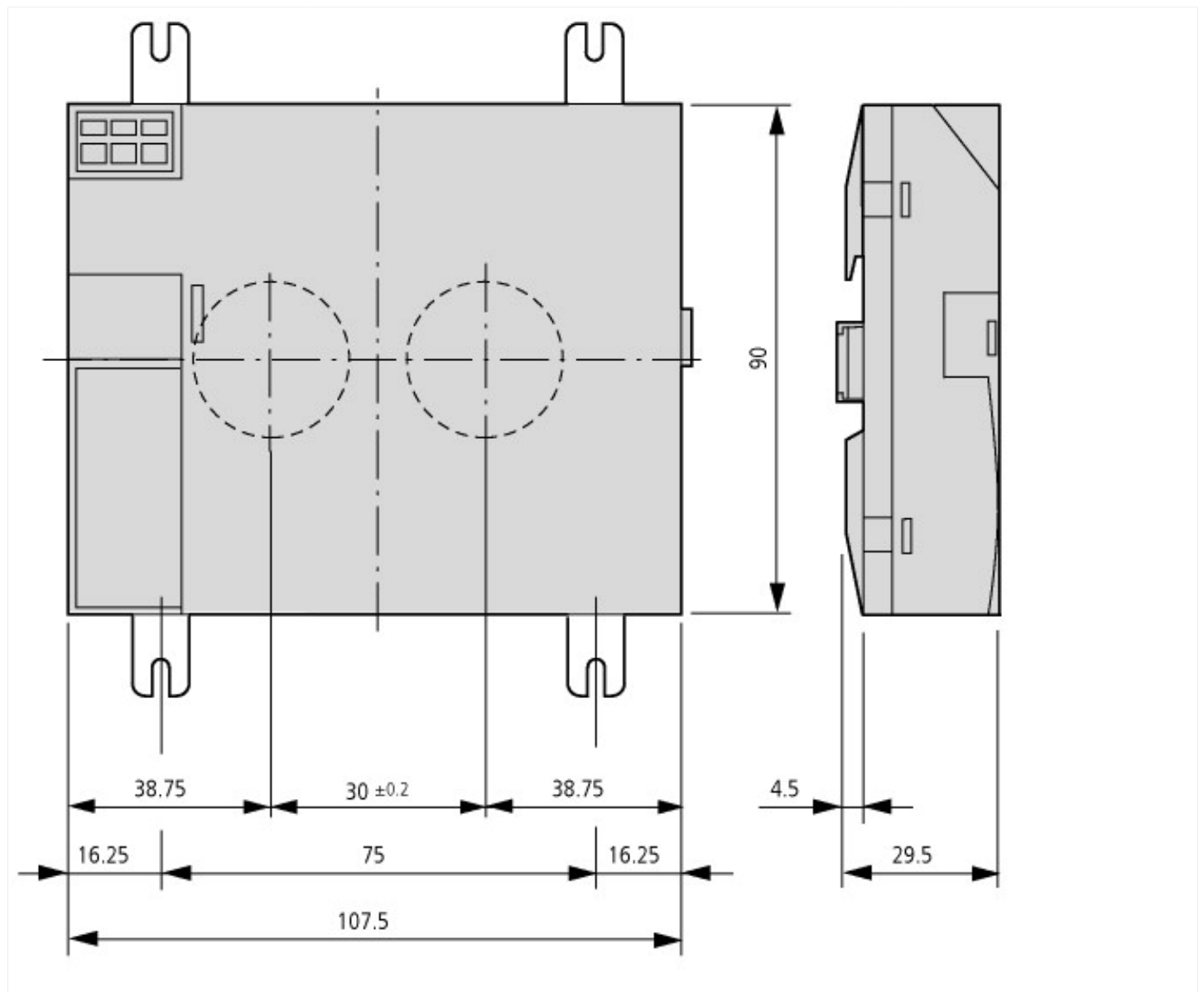
PLC's (EG000024) / Text panel (EC001426)		
Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Text panel (HMI) (ecl@ss10.0.1-27-33-02-03 [AFX018003])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	20.4 - 28.8
Voltage type of supply voltage		DC
Number of HW-interfaces industrial Ethernet		0
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		0
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		0
Number of HW-interfaces other		2
Supporting protocol for TCP/IP		No
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		No
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		No
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
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
IO link master		No
Type of display		LCD with background illumination
Number of display lines		4
Number of characters per line		16
Max. character height, display	mm	32
Useful project memory/user memory	kByte	0
With numeric keyboard		No
With alpha numeric keyboard		No
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
Process default value (input) possible			Yes
With recipes			No
Number of password levels			1
With printer output			No
Number of online languages			13
Degree of protection (IP), front side			IP65
Degree of protection (NEMA)			12
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
Built-in depth		mm	36.2

## Approvals

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 information (links)

### Instruction leaflet "power supply unit, communication module" IL05013018Z (AWA2528-2175)

Instruction leaflet "power supply unit, communication module" IL05013018Z (AWA2528-2175)

[https://es-assets.eaton.com/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL05013018Z2018\\_02.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05013018Z2018_02.pdf)

### Manual "MFD-CP4, power supply unit/communication module" MN05013011Z (AWB2528-1548)

Handbuch „MFD-CP4, Stromversorgungseinheit/ Kommunikationsmodul“ MN05013011Z (AWB2528-1548) - Deutsch

[https://es-assets.eaton.com/DOCUMENTATION/AWB\\_MANUALS/MN05013011Z\\_DE.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05013011Z_DE.pdf)

Manual "MFD-CP4, power supply unit/ communication module" MN05013011Z (AWB2528-1548) - English

[https://es-assets.eaton.com/DOCUMENTATION/AWB\\_MANUALS/MN05013011Z\\_EN.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05013011Z_EN.pdf)