




Bluetooth Adapter, communication easy800/MFD-CP8/CP10/EC4P with PC, plug-in

Part no. EASY800-BLT-ADP
Catalog No. 167651
Eaton Catalog No. EASY800-BLT-ADP
EL-Nummer (Norway) 4560847

Delivery program

Product range			Control relays easyRelay Multi-function-display MFD-Titan
Subrange			Programming accessories Cables, component adapters and plugs
Function			For secure radio connection between control relay and PC (programming and online communication)/Android smartphone and tablet (easyRemote display app, easyParameter app)
For use with			easy81..., easy82... MFD-CP8, MFD-CP10  V. 3.0 EC4P
radio interface			
Bluetooth module used			easy800-BLT-ADP 02, 03: PAN1321 SPP, ENW89811K4CF easy800-BLT-ADP 04: PAN1322 SPP, ENW89841A3KF
BlueTooth	Version		2.0, EDR conform
Transmitting power			
Output level		mW	2.5
Output power		dBm	4
Class			2
Transission mode			easy800-BLT-ADP 02, 03 secure connection using PIN code easy800-BLT-ADP 04 secure connection using secure simple pairing
Baud rate		Bd	57600
Range		m	10
Communications partners			
	Count		4
	Type		PC

Technical data

General

Standards			EN 55011, EN 50178, IEC EN 61000-4, IEC60068-2-6, IEC60068-2-27
Dimensions (W x H x D)		mm	15 x 45 x 17
Weight		kg	0.08
Mounting			Can be plugged into the easy800-Standard, MFD-CP8/CP10, EC4P serial interface
Climatic proofing			Cold to EN 60068-2-1 Heat to IEC 60068-2-2 Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Temperature change as per IEC 68000-2-14
Operating ambient temperature		°C	-25 to +55 (-13 to +131)
Condensation			Take appropriate measures to prevent condensation
Storage	θ	°C	-40 to +70, (-40 to +158)
relative humidity		%	5 - 95
Air pressure (operation)		hPa	795 - 1080

Ambient conditions, mechanical

Protection type (IEC/EN 60529, EN50178, VBG 4)			IP20
Vibrations	3,5 mm / 1 g	Hz	constant amplitude 3,5 mm: 5 - 8,4 constant acceleration 1 g: 8,4 - 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	0.3
Mounting position		Any, depends on the device's position

Electromagnetic compatibility (EMC)

Electrostatic discharge (ESD)		
applied standard		IEC EN 61000-4-3
Air discharge	kV	8
Contact discharge	kV	6
Electromagnetic fields (RFI) to IEC EN 61000-4-3	V/m	0.8 - 1.0 GHz: 10 1.4 - 2 GHz: 3 2.0 - 2.7 GHz: 1
Radio interference suppression		Class B
Burst	kV	2
Immunity to line-conducted interference to (IEC/EN 61000-4-6)	V	10

Insulation resistance

Pollution degree		2
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radio interface

Radio licenses and certifications		easy800-BLT-ADP 02, 03 for ENW89811K4C easy800-BLT-ADP 04 for ENW89841A3KF R&TTE 1999/5/EC (part of CE Declaration of Conformity) FCC ID: T7VEBMU (USA) IC: 216QEEMU (Canada)
BlueTooth	Version	2.0, EDR conform
Bluetooth module used		easy800-BLT-ADP 02, 03: PAN1321 SPP, ENW89811K4CF easy800-BLT-ADP 04: PAN1322 SPP, ENW89841A3KF
Coupling time		60 Sekunden für Secure Simple Pairing

Transmitting power

Output level	mW	typ. 2.5
Output power	dBm	typ. 4
Transission mode		easy800-BLT-ADP 02, 03 secure connection using PIN code easy800-BLT-ADP 04 secure connection using secure simple pairing
Baud rate	Bd	57600
Range	m	10
Number of computers that can be connected		4

Design verification as per IEC/EN 61439

Technical data for design verification		
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		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		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.
10.2.7 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

PLC's (EG000024) / PLC communication module (EC001423)

Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / SPS communication module (ecl@ss8.1-27-24-22-08 [AKE531011])

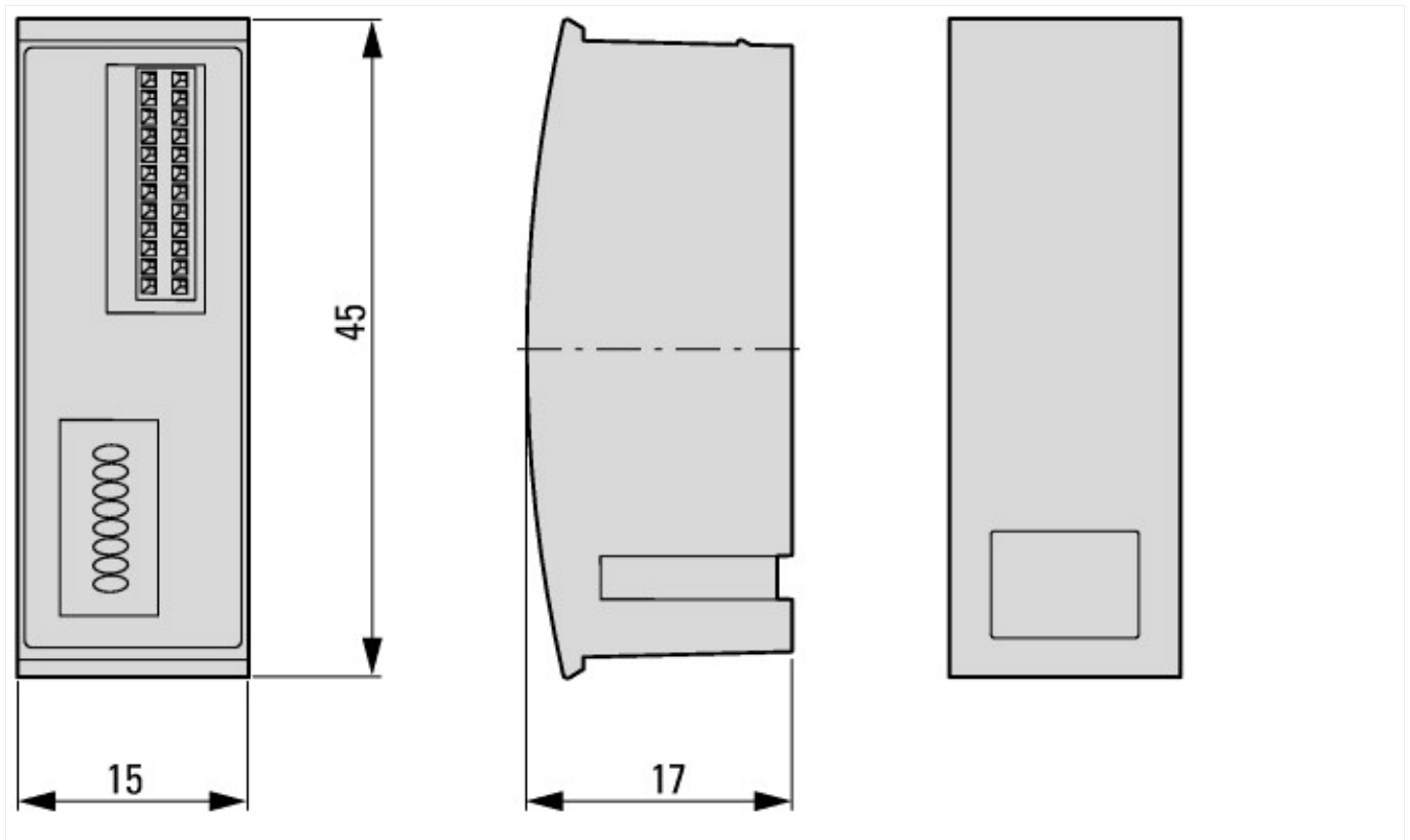
Number of HW-interfaces industrial Ethernet		0
Number of HW-interfaces PROFINET		0
Number of HW-interfaces RS-232		0
Number of HW-interfaces RS-422		0
Number of HW-interfaces RS-485		0
Number of HW-interfaces serial TTY		0
Number of HW-interfaces USB		0
Number of HW-interfaces parallel		0
Number of HW-interfaces Wireless		1
Number of HW-interfaces other		0
With optical interface		No
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		Yes
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
IO link master		No
Redundancy		No
Type of data transmission		Serial
Transmission rate	kBit/s	57.6
With potential separation		Yes
Category according to EN 954-1		
SIL according to IEC 61508		None
Suitable for safety functions		No

Performance level acc. to EN ISO 13849-1			None
Appendant operation agent (Ex ia)			No
Appendant operation agent (Ex ib)			No
Explosion safety category for gas			None
Explosion safety category for dust			None
Width		mm	15
Height		mm	45
Depth		mm	17

Approvals

Product Standards			IEC/EN: see Technical Data; UL508; CSA-C22.2; CE marking
UL File No.			E135462

Dimensions



Additional product information (links)

Manual "easy800-BLT-ADP Bluetooth adapter" MN04902002Z	
Handbuch easy800-BLT-ADP Bluetooth-Adapter MN04902002Z - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04902002Z_DE.pdf
Manual "easy800-BLT-ADP Bluetooth adapter" MN04902002Z - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04902002Z_EN.pdf