Ewon Flexy 205 - Class 1 Div 2

Item number: FLEXY20500_00MAH

The Ewon Flexy Class 1 Div 2 is a version of the Flexy 205 IIoT data gateway with additional certification for hazardous environments. It allows machine builders and users to monitor and collect critical KPIs for analysis and predictive maintenance. Data can be gathered from PLCs, sensors, and other devices with support for a wide range of industrial protocols, including OPC UA.



Industrial VPN gateway for IIoT data collection & monitoring

Features and benefits

Specifications of Class 1 Div 2 gateways

Class 1 Div 2 certified gateways provide complete safety assurance in hazardous environments where flammable or explosive substances are present, such as in the oil and gas industry or the chemical sector. Ewon Flexy helps create a safer working environments, protect employees, and minimize the risk of accidents and incidents.

Implement efficient data monitoring

The Ewon Flexy supports all major PLC protocols for data logging & alarms. Local web-dashboard for KPIs monitoring through Talk2m's M2web service. OPC UA server to share data with Enterprise Systems.

Do more with built-in connectors and APIs

You might not have a data application today. But when the time comes, be confident in the fact that you can connect to a local or cloud data solution and make your machine smarter.

Extended data services

Wide range of possibilities: PLC data acquisition, alarms, OPC UA, Modbus, MQTT, SNMP, HTTPs, local web-dashboards, cloud live KPIs, and programming (Basic & Java).

Easily acquire and log data

Gather data from PLCs, sensors and other devices thanks to the support of a wide range of industrial protocols, including OPC UA.

Enable machine remote connectivity

Enjoy VPN remote access for PLC troubleshooting. The included Talk2m cloud's global infrastructure is redundant and reliable. Setup your device in minutes for unrivalled connectivity success.

Leverage flexible data integration

Full flexibility to send data to any server. Multiple IoT connectors, and MQTT/HTTPS through embedded Basic or Java scripting engine. Talk2m Data Services with APIs for third party software integration.

Future-proof thanks to extension cards

Discover the interchangeable extension cards of the Ewon Flexy: WiFi, 3G, 4G, USB, Ethernet WAN. These allow you to easily keep up with the evolution of communication technologies.

OPC UA ready

Ewon Flexy gateways support OPC UA, a modern protocol for industrial automation. It enables easy machine connectivity, asset modernization, and secure data collection from the factory floor.

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General

Net Weight (g)	122
Packed Width (mm)	295
Packed Height (mm)	180
Packed Depth (mm)	57
Packed Weight (g)	184
Operating Temperature °C Min	-25
Operating Temperature °C Max	+60
Storage Temperature °C Min	-30
Storage Temperature °C Max	+70
Relative Humidity	10 to 95% relative humidity (non-condensing).
Input Voltage (V)	12 - 24VDC +/-20%, LPS.Consumption: depending on the extension card installed (see Installation guide on our website).
Power Connector	9-pole
Configuration	Web-Based configuration: Embedded web interface with setup wizards for configuration and maintenance (no extra software needed). Authentication with login/password and user management capability. Possibility of uploading custom web GUI.
Content of Delivery	This product consists of the following components: an industrial gateway in a plastic housing, a power connector, 2 pcs of Flexy blank extension front plates, legal references in paper version and a branded cardboard box.
Not Included (in delivery)	Any variant of extension boards and their accessories (antenna, cable)
Mounting	DIN rail mount (bracket included), Wall mount
Housing Materials	Plastic
Packaging Material	Cardboard
Warranty (years)	3

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Data Features

Router Features	Routing capability between LAN and WAN Ethernet interface and Ethernet to serial gateway. IP filtering, IP forwarding, NAT, Port forwarding, Proxy, Routing table, DHCP client/server, NAT 1 :1.
VPN	OpenVPN either in SSL UDP or TCP.
VPN Security	VPN sessions are end-to-end encrypted using SSL/TLS protocol. Communications between the remote user and the Ewon are fully encrypted using the SSL/TLS protocol, thereby ensuring data authenticity, integrity & confidentiality. Indeed, all users and Ewon units are authenticated using x509 SSL certificates and end-to-end traffic is encrypted using strong symmetric & asymmetric algorithms that are part of the SSL/TLS protocol cipher suite.
Data Acquisition Protocols	OPC UA, Modbus RTU, Modbus-TCP, Unitelway, DF1, PPI, MPI, PROFIBUS, FINS Hostlink, FINS TCP, EtherNet/IP, ISO TCP, Mitsubishi FX, Mitsubishi MELSEC, Hitachi EH, ASCII, BACnet/IP
Data Publishing Protocols	OPC UA, Modbus, MQTT, SNMP, HTTPS
Data Logging	Define up to 2500 internal tags. Internal database for data logging (real-time logging and historical logging up to 1,000,000 timestamps). Historical data can be exported to DataMailbox or transferred by FTP or email.

Identification and Status

Product ID	FLEXY20500_00MAH
Country of Origin	Belgium
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN) (Applies only to the U.S)	5A992.c

Physical Features

SD Card Slot	SD
Connectors / Input / Output	4 x RJ45 Ethernet port: 10/100 Mb. Configurable LAN/WAN ports, port 1 always LAN, 2x Digital input: 0 to 12/24VDC; 1.5kV isolation, 1x Digital output: open drain (MOSFET) 200mA; 1.5 kV isolation.
Contains Battery	Yes

Certifications and Standards

Product Certifications	CE, UL, KC, RCM, FCC, IC, UKCA
	This variant of the product fulfills the requirements of: UL 121201, 9th Ed., Issue Date: 2017-09-15, Revision Date: 2021-04-01 and CSA C22.2 NO. 213-17, 3rd Ed.

Environment	Temperature - Operating & Storage tested according to: IEC 60068-2-1 Cold test, IEC 60068-2-2 Dry heat test, IEC 60068-2-14 Change of temperature, IEC 60068-2-30 Cyclic damp heat test
Vibration and Shock	Vibration & shocks tested according to: IEC 60068-2-27 Bumps, IEC 60068-2-64 Vibration (broad-band random), IEC 60068-2-6 Vibration (sinusoidal)

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Certifications and Standards

WEEE Category	IT and telecommunications equipment
Other Certification	Giteki Japan, Russia FSS notification