

# ELINK 61850 COMMUNICATION SOLUTION



**IEC 61850 network  
communication gateway  
for TRIAD 2 transducers  
and ENERIUM power  
monitors**



Communication:  
IEC 61850 - Edition 2 server  
Modbus RS485 Master

TRIAD 2 and ENERIUM seen as IEC 61850 native  
products

Easy implementation via web pages

High performance: up to 20 slave devices

# The ELINK 61850 communication gateway

can be used to connect ENERIUM power monitors and TRIAD 2 transducers to an IEC 61850 network. The ENERIUM and TRIAD 2 products are seen as IEC 61850 native products by any supervision system or IEC 61850 SCADA / RTU client PLC.

1

## Neutral

ELINK 61850 can be used to provide IEC 61850 communication without calling into question your choice or your qualification of an Enerdis measurement solution.

2

## Installation upgrade

ELINK 61850 interfaces with the equipment already in place, enabling you to modernize your installation into an IEC 61850 digital substation.

3

## Comprehensive

All the electrical measurements from the Enerdis measuring equipment are handled by the IEC 61850 communication protocol:

- Instantaneous measurements for TRIAD 2
- Instantaneous, min/max/average, energy and energy quality measurements for ENERIUM

4

## Upgradable

The teams at Enerdis respond quickly to propose solutions for adapting ELINK 61850 to your application

## To order

ELINK 61850

P01380850

## Electrical specifications

Auxiliary power supply	AC: 80 to 265 Vac - 10 VA / 42.5 to 69 Hz DC: 80 to 265 Vdc - 7 W
Power reserve	2.5 seconds (with 230 Vac)

## Communication - IEC 61850 protocol

Sections	IEC 61850-1, IEC 61850-5, IEC 61850-7
Logical nodes supported	MMXU, MMXN, MSTA, MMTR (Triad2/Enerium) MHAI, MHAN (Enerium)
Ethernet port	RJ45 - 8 contacts / 10 - 100 baseT
RS485A and RS485B ports	Type: independent RS485 - 2 isolated wires Protocol: Modbus RTU mode Operation: Master / Half-duplex mode Speed: 300 to 115,200 bauds

## Mechanical specifications

Weight	560 g
Mounting	On DIN rail
Connection	Screw terminal block
Cable cross-sections	6 mm <sup>2</sup> single wire - 4 mm <sup>2</sup> multi-wire
Dimensions	120.5 x 120 x 81 mm (WxLxH)

## Environmental constraints

Operating temperature	-10 °C to +55 °C
Storage temperature	-25 °C to +70 °C
Ingress protection	IP20
Pollution degree	2
Installation category	III
Safety standard	IEC 61010
Electromagnetic standards	IEC 61000-4-2/3/4/5/6/8/11/12/18 - CISPR22 IEC 61000-6-5 (Zone 2 - Station standard)

## Enerdis measurement solutions



ENERIUM 50 / 150



ENERIUM 100 / 200 / 300



TRIAD 2

## Network architecture



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