

Ethernet interface box DCU^{loP}

For PYROSPOT pyrometers

Overview

Ethernet Interface box DCU^{loP} with network and pyrometer connectors



Description

The integration of PYROSPOT pyrometers from DIAS Infrared in local networks is easily possible. The pyrometers can be connected directly to a LAN with the new Ethernet interface unit DCU^{loP}.

Therefore they are suitable for IP-based data transmission to terminal devices as well as for data exchange on a web-page basis.

When several PYROSPOT pyrometers with RS-485 interface are connected to the Ethernet interface unit DCU^{loP}, it is possible that they operate via one port under one IP address. In addition, the interconnection of pyrometers is simplified by the built-in web server.

A wireless connection enables the uncomplicated commissioning, maintenance and local control via the web browser of smartphone or tablet. An integrated data logger enables the recording of pyrometer measurement data.

The measured data acquisition and parameterizing via IP/TCP can be done directly with the operating and visualization software PYROSOFT Spot and PYROSOFT Spot Pro for pyrometers.

Main features

- (1) Up to 32 pyrometers can be connected to one Ethernet interface box DCU^{loP}. All pyrometers are accessible under one IP address.
- (2) Distances up to 30 m between the connected pyrometer and the DCU^{loP} are possible.
- (3) The power supply is possible via Power over Ethernet (PoE) or via a separate 24 V DC voltage.
- (4) The integrated web server provides the following functions and information (web pages):
 - Status information about the DCU^{loP} (ID, IP address, etc.)
 - Number and type of connected pyrometers
 - Measurement data over the last minutes
 - Video image of all pyrometers connected, if video data is available
 - Parameterization of the interface box and the pyrometer
 - Documentation
 - Contact information and many more
- (5) WiFi access point, switchable

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Technical data

Type	DCU ^{IoP}
Connections	Device connector (12 pin) (female) Video connector (male) Ethernet connector with PoE, M12A (female) External operating voltage 24 V DC , RS-485 (12 pin) (male) Pass-through of analog pyrometer signals
Power supply	External 24 V DC \pm 25 %, residual ripple 500 mV, internal power consumption approx. 2.5 W or PoE
Protection class	IP65 according to DIN 40050
Housing dimensions	approx. 110 mm \times 80 mm \times 40 mm [W \times D \times H]
Operating temperature	0 °C to 70 °C
Storage temperature	-20 °C to 70 °C
Weight	approx. 500 g
CE symbol	according to EU regulations
Test regulations	EN 55 011:1998

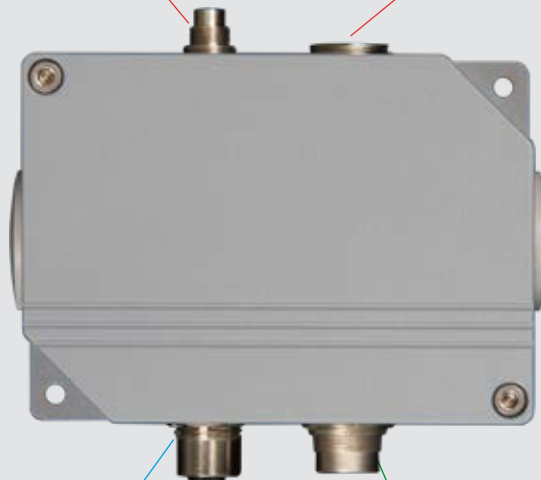
Connectors

Pyrometer connectors

Video connector (male) Device connector (12 pin) (female)

Network connectors

Power supply connectors



Ethernet connector, PoE M12A (female)

External operating voltage 24 V DC, RS-485 bus (male)
Pass-through of analog pyrometer signals: current output 0/4 to 20 mA, pilot light on/off, ext. clear of maximum value*)
*) and alternatively switching output if available

Accessories ¹	Part number	Accessories ¹	Part number
Pyrometer connection cable 2 m	3310A11121	Connection cable 10 m	3310A11113
Pyrometer connection cable 5 m	3310A11122	Connection cable 30 m	3310A11117
Video connection cable 2 m	3310A16501	Ethernet cable 10 m	3310A32010
Video connection cable 5 m	3310A16502	Ethernet cable 30 m	3310A32030

¹ Other accessories on request.

Technische Änderungen vorbehalten. Technical details are subject to change. 19.03.20



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