ANALOG UNIT MODULE

IMS equipment
Model:**Analog**

IMS ANALOG4

24V / 2W

- Diagnostics and Alarm Notification for Each Channel Individually
- 2-inch Graphic Interface
- Configurable Digital Inputs/Outputs

The analog module, which is in the final stages of development, is an advanced device with four configuration channels. Each channel supports different operating modes, including:

- Measurement from 0 to 10V
- Output from 0 to 10V
- Input from 4 to 20mA
- Output from 4 to 20mA
- Resistive Temperature Detector (RTD) (pt100, pt500, pt1000)
- The module also supports a digital input mode.

It is equipped with a 2-inch graphic interface, through which we can view readings or errors on-site, as well as alarm notifications and diagnostics for each channel individually.

TECHNICAL SPECIFICATIONS	
Power supply / Consumption:	24V / 2W
Upper limit:	28V
Reverse polarity protection:	Da
Surge protection for all channels:	40V

DEVICE CONSUMPTION	
Nominal power:	2W
Maximum power:	3W

WORKING MODE	
Analog input:	Yes
Analog output:	Yes

CONFIGURABLE ANALOG INPUTS/OUTPUTS	
Number of configurable I/O ports:	4

NUMBER OF CONFIGURABLE INPUTS:	
For measuring voltage:	4
For measuring current:	4
For measuring electrical resistance:	4

NUMBER OF CONFIGURABLE OUTPUTS:	
Voltage output:	4
Current output:	4

MEASURING UNITS:

Voltage I/O:	mV
Current I/O:	mA
Resistance:	Ω

DIAGNOSTIC INDICATION

Display:	Yes
Display of channel status:	Yes
Channel diagnostics on the display:	Yes
Full module diagnostics on the display:	Yes

OPERATING(AMBIENT) CONDITIONS:

Permitted ambient temperature during operation:	
Installation on DIN rail horizontal min temperature:	-25°C
Installation on DIN rail horizontal max temperature:	70 °C

TIME/RESOLUTION REQUIRED FOR INTEGRATION AND CONVERSION PER CHANNEL

Resolution in the range, max.	16bit
Conversion time (per channel)	60ms, 180/50ms

OTHER

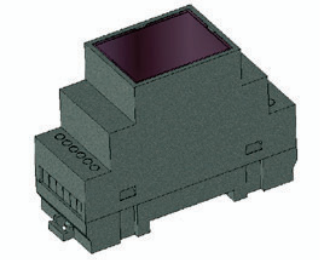
Dimension:	90x70x65mm, without power supply module
Mounting type:	DIN-rail (EN 60715)
IP rating:	IP40

Ethernet Modul

IMS equipment
Model:**Ethernet_2302**

IMS ETHERNET 2302

24V / 2W



- Compact housing
- Easy assembly with the accompanying module via extension side connector
- LCD display

TECHNICAL SPECIFICATIONS

Power supply / Consumption:	24V / 2W
Dimensions with housing:	90x35x65mm
Data transfer rate:	10/100 Mbit/s
Operating temperature:	-25 to 70°C

- **Network distribution:** Provides internet connection to further connected devices, allowing them to access network resources and the internet.
- **LAN connector:** The module has one LAN connector that connects directly to the router, ensuring a stable internet connection.
- The module connects via a side connector, where it receives power, simplifying installation and reducing the number of required cables.

The compact housing allows for quick and secure mounting on a standard DIN rail, making it suitable for various industrial applications.

DIGITAL MODUL

IMS equipment
Model:**Digital**

IMS Digital8

24V / 2W

- Diagnostics and alarm notifications for each channel separately
- 2-inch graphic interface
- Configurable digital inputs/outputs

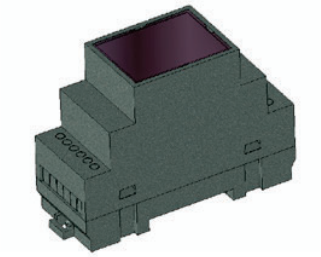
TECHNICAL SPECIFICATIONS	
Power supply / Consumption	24V / 2W
RADNI MOD	
Digital input:	Yes
Digital output:	Yes
CONFIGURABLE DIGITAL INPUTS/OUTPUTS	
Input characteristic curve according to IEC 61131 type 1:	Yes
Input characteristic curve according to IEC 61131 type 2:	Yes
Input characteristic curve according to IEC 61131 type 3:	Yes
SIGNAL INPUT VOLTAGE	
Nominal value:	24V
For signal 0:	-30 do +5V
For signal 1:	+11V do +30V
SENSOR CONNECTION OPTION	
2-wire sensor:	24V
Allowed sensor idle current:	1.5mA
ALARMS	
Diagnostic alarm:	Yes, for each channel separately.
Hardware failure/break:	Yes, for each channel separately.
DIAGNOSTICS	
Possibility to read diagnostic information:	Yes
Monitoring of supply voltage:	Yes
Break detection:	Yes, for each channel separately.
Short-circuit detection:	Yes, for each channel separately.
OPERATING (AMBIENT) CONDITIONS	
Permissible ambient temperature during operation	
Installation on DIN rail horizontal min temperature:	-25°C
Installation on DIN rail horizontal max temperature:	70 °C
OPERATING (AMBIENT) CONDITIONS	
Dimensions (height x width x depth)	90x70x65mm

PDU Modul

IMS equipment
Model:**PowerDistributionUnit**

IMS PDU

24V / 120W



- Power filtering and distribution
- Surge protection
- Easy assembly with the accompanying module via the extension connector

TECHNICAL SPECIFICATIONS

Power supply / Consumption	24V / 0.5W
Maximum allowable current / power:	5A / 120W
Dimensions with housing:	90x35x65mm
Operating temperature:	-25 to 70°C

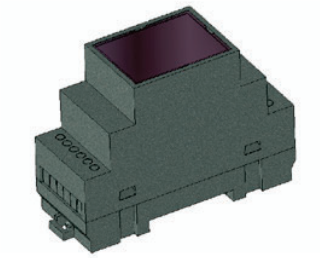
- The Power Distribution Unit (PDU) module provides an efficient and safe energy distribution solution from the power source to the connected device.
- Like the Analog module, this one is equipped with an extension connector that mounts on the side of the housing.
- All modules are designed for easy mounting on a standard DIN rail, simplifying installation, replacement, and maintenance.

RS485 Modul

IMS equipment
Model:**RS485**

IMS RS485

24V / 2W



- Universal module for communication with RS485 module
- Unit Load 1/8 (256 nodes)
- Easy assembly with the accompanying module via the extension connector

TECHNICAL SPECIFICATIONS

Power supply / Consumption	24V / 2W
Maximum allowable current:	5A
Data transfer rate:	10Mbps
Load capacity:	1/8 UL, 256 nodes
Dimensions with housing:	90x35x65mm
Operating temperature:	-25 to 70°C

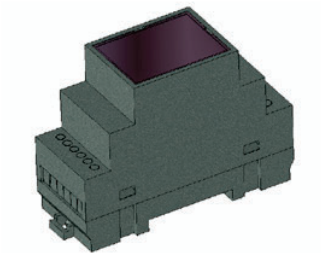
- Our universal module enables simple and reliable communication with devices using the RS-485 standard, offering flexibility for a wide range of applications.
- Like the Analog module, it is equipped with an extension connector that mounts on the side of the housing.
- All modules are designed for easy installation on a standard DIN rail, simplifying installation, replacement, and maintenance.

MODBUS Module

IMS equipment
Model:IMS MODBUS

IMS MODBUS

24V / 2W



- Universal communication module
- Support for MODBUS RTU and MODBUS TCP protocols
- Easy integration with adjacent modules via extension connector

The IMS MODBUS module is a specialized communication module designed to connect the IMS system with external equipment that operates using the MODBUS RTU/TCP protocol, such as industrial automation or monitoring systems.

The module acts as a bridge between the IMS environment and external systems, enabling bidirectional communication. It allows status information from IMS modules to be transmitted outward, and control signals to be received back into the IMS infrastructure.

It is powered via the IMS PDU (Power Distribution Unit) module at 24V, ensuring stable and reliable operation under all conditions.

Physically, the module is mounted on a DIN rail, enabling fast and easy installation within the cabinet alongside other IMS modules. The side connector allows for seamless mechanical and electrical integration with adjacent modules without the need for additional cabling.

TECHNICAL SPECIFICATIONS

Power supply / Consumption:	24V / 2W
Dimensions with housing:	90x35x65mm
Supported protocols:	TCP, RTU
Operating temperature:	-25 do 70°C

- Reliable communication and seamless integration into existing SCADA and automation systems.
- Supports MODBUS RTU and MODBUS TCP protocols.
- Connects with PLCs, UPS units, and other MODBUS-compatible devices.

- In addition to integration within our IMS system, GSL DOO also offers a standalone MODBUS solution for clients with existing industrial or infrastructural equipment. Our team provides full configuration and customization of the module according to your system's specifications, enabling simple and reliable communication with your current infrastructure.