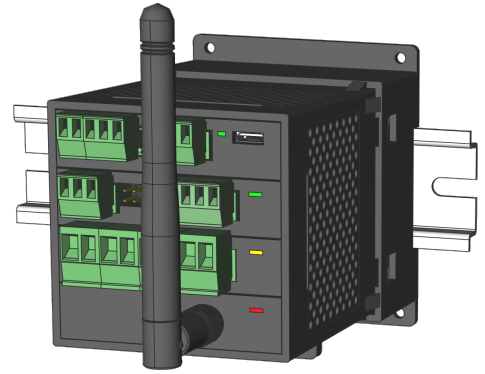


Digalox® DGLX Module system

DGLX Module system complements the Digalox® series by an extendible, freely programmable measuring and control system



Description

The system consists of at least one basic unit and up to three extension cards. In order to use additional cards, several basic units can be interconnected as slot extensions.

Basic units are available with either LCD displays size 72x72 mm, with touchscreen TFT displays size 96x96 mm or without displays for easy DIN rail mounting. The basic unit for DIN rail mounting is extendible by an external TFT display. External TFT displays are available in sizes 2.8 inches to 7 inches,

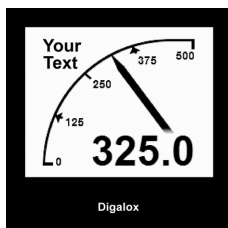
with or without touchscreen. The unit is equipped with individually customizable display designs, mathematic functions as well as process controls. Measuring and counting values of the cards in use can be freely combined and processed at will, e.g. for recording or transfer of data via USB, RS485, CAN-Bus, or wirelessly (2.4 GHz mesh network).

By default, each device has USB, RS485 and two digital PLC-compatible inputs and outputs.

Features

- 72x72 mm LCD display, IP65
- 96x96 mm TFT touch screen 4", IP65
- Housing for DIN rail or wall mounting
- External TFT touch screen up to 7", IP65
- Modular card slot system
- Three card slots per basic unit
- Additional basic units can be used as slot extensions
- Individually customizable display designs
- Programmable mathematic functions
- Programmable process controls
- Data retention in case of power failure, e.g. for elapsed time meters, energy meters, error logging, etc.
- USB interface
- Supply via 12 - 24 V AC/DC or via USB

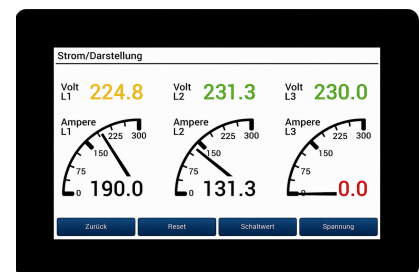
Basic units with display and external displays



Basic unit 72x72 mm RGB
LCD display



Basic unit 96x96 mm touch screen
TFT display 72x70 mm
100 mm diagonal (4")



External TFT displays up to 7"
with or without touchscreen

Software

The measuring devices can be set up individually using the configuration software. For example, it is possible to upload your own text or customer-specific images (vector graphics), to define screen pages and

to arrange operating elements and displays. The processing of the measured values and control signals as well as customer-specific sequence controls can be designed with scripts.

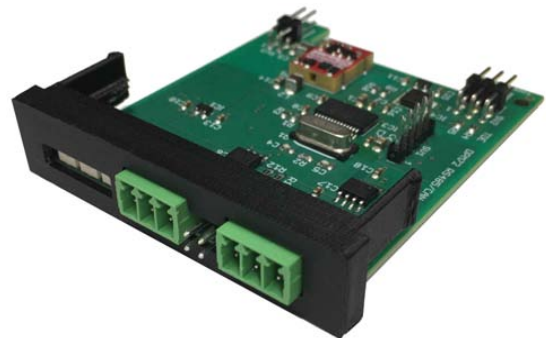
Interfaces

In principle, all devices have a USB interface for programming and data transmission as well as an RS485 interface for connection to other DGLX

systems or for communication with third-party devices via Modbus-RTU. Additional fieldbuses or types of communication can be added via extension cards.

Isolated digital IO

Each device has an IO system that is galvanically isolated from the main system and has two inputs and two outputs. The inputs are designed as sink / PNP inputs for voltages of 12 - 24 V DC. The outputs are designed as 24 V source / PNP outputs with 1 A current limitation, thermal protection circuit and integrated freewheeling diode for switching inductive loads.



Extension cards

Extension card	Use	Specification	Number of Slots
E10	communication	RS485 Modbus RTU	3× 3.5 mm
E11	communication	CAN Bus	3× 3.5 mm
E12	communication	RS422	5× 3.5 mm
E70	communication	XBEE 2.4 GHz mesh network	SMA antenna connector
E71	communication	LTE-NB-IoT network	SMA antenna connector
E20	electrical measurement	voltage: 0-300 V AC/DC (L1-L2-L3-N) current: 4× 0-5 A AC/DC	4× 7.62mm 8× 5.08mm
E23	electrical measurement	voltage: 2× 0-300 V AC/DC current: 2× 0-5 A AC/DC	8× 5.08mm
E25	electrical measurement	voltage: 4× 0 - 5 A AC/DC	8× 5.08mm
E21	analogue signal measurement	0/4-20 mA analogue signal	8× 5.08mm
E22	analogue signal measurement	0/2-10 v analogue signal	8× 5.08mm
E40	TFT adapter	For external TFT panels	3× 3.5mm, 10pol FPC
E60	IO card	8 channels: digital IO, analogue IO or SSR	16× 2.5mm