DIGIcontrol-CMO

- ModBus to Intelligent Building Bus (IBB)
- Up to 10 ModBus measurement devices
- Up to 60 counters & 60 analogue values
- New generation 4 analogue direct reporting with mean, min, max calculation
- Four individual addressable monitored inputs
- One potential free power relay
- Relay power management for low power consumption
- Flash prom for filter and input parameter
- Lighting control function logic
- DIN-Rail mounting

DIGIcontrol-CMO

ModBus to IBB interface

The DIGIcontrol-CMO represents a gateway between the **I**ntelligent **B**uilding **B**us (IBB) and MODBUS (RTU) measurement devices. Supporting MODBUS device register content readouts and transmission to bus master in AUTO MODE.

The DIGIcontrol-CMO ModBus (RTU) master to Intelligent Building Bus (IBB) interface allows connecting up to 10 ModBus energy or other counter modules. Up to 60 analogue channels and 60 logger/counter channels with configurable ModBus register sources can be converted to the DIGIcontrol IBB network protocol. This allows to protocol and monitor total power consumption and delivery, as well as individual phase values, including phase voltage and current with just one ModBus counter module.

The new generation 4 analogue reporting system allows generating and direct reporting of value, mean value over period and also maximum & minimum in period.

The DIGIcontrol-CMO features also four monitored digital inputs. This enables the use in VdS conform alarm configurations. A single general-purpose relay can be used for power managing, light control or any other application.

A unique serial number allows the configuration of a RS485 ID-number in the range from 1 to 120. The device is powered over their internal power regulators from the IBB line. An intelligent relay power management is featuring a small relay hold current reduces the IBB power requirement.

Parameters are stored in flash prom to avoid loss of data in the event of power failure. Configuration is carried out from the computer, allowing parameters such as the association of Modbus registers to DIGIcontrol regulation and counter values. Inputs can be configured for alarm or lighting control functions. Each input can be used at the same time for lighting control, regulation, video, intercom, access control and alarm monitoring.

The DIGIcontrol-3000 host software allows an easy configuration of different Modbus counter modules.
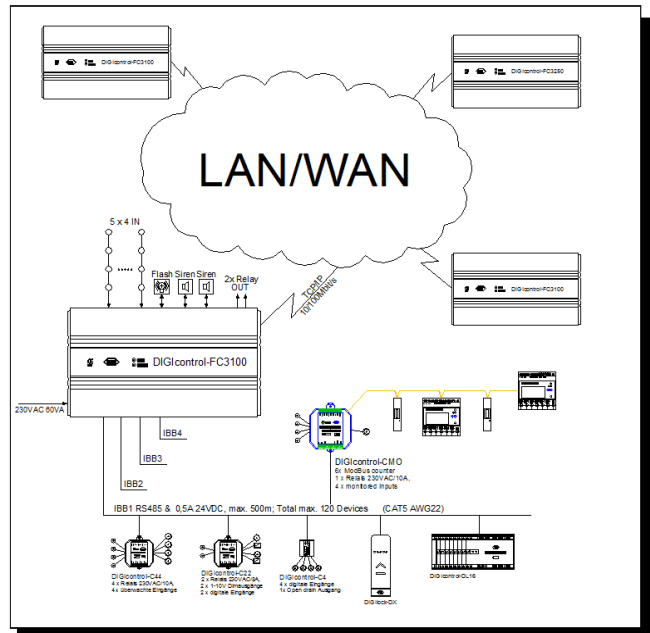
Technical Data

DIGIcontrol-CMO:
ARM4 low power CPU with flash prom
    for ID and parameters
Dual colour operation mode LED
19.200 Baud Modbus Master
1 monitored power relay 230VAC/10A
4 monitored digital inputs
1 RS485 IBB interface to floor controller
Power: 12-28VDC / 40 mA max.
Dimensions: 80 x 67 x H 39 mm
                DIN-Rail mounting
Temperature range: -10° to +50°C

Delivery Contents:

DIGIcontrol-CMO complete with installation and wiring instructions.

Options:

DIGIcontrol-SMod Single-phase energy meter with ModBus RTU interface to query data, 230VAC max 32A, Display of active power, voltage and current, 7-digits display

DIGIcontrol-3Mod 3-phase energy meter with ModBus RTU interface to query data, max 75A, Graphic LC display 8-digit display with one decimal place, Accuracy class B(+/-1%) for active energy EN50470-1, -3

DIGIcontrol-3BMod 3-phase bidirectional energy meter with ModBus RTU interface to query data, max 75A, Graphic LC display 8-digit display with one decimal place, Accuracy class B(+/-1%) for active energy EN50470-1, -3

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