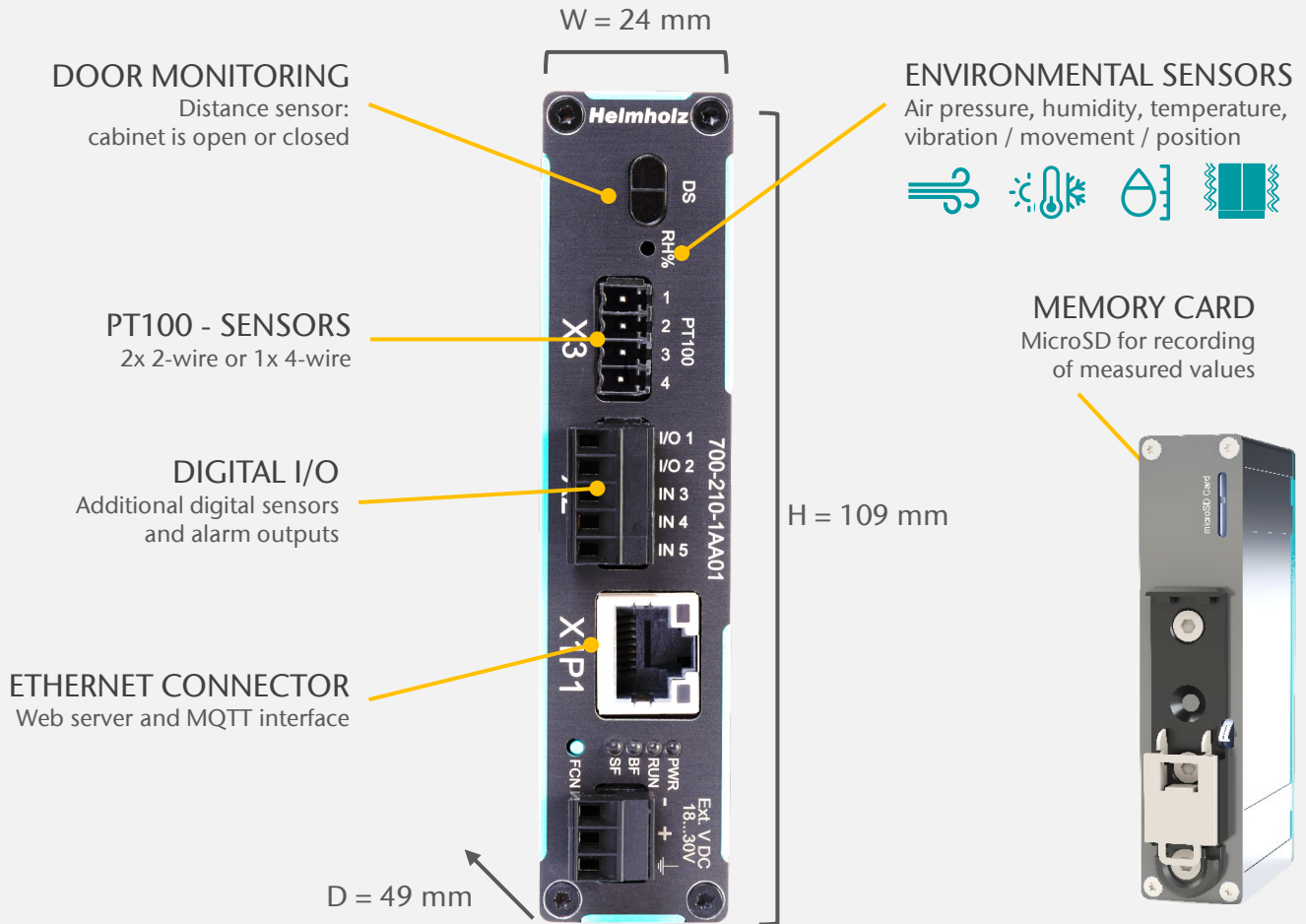# CABINET GUARDING SYSTEM

ATTENTION - PRELIMINARY INFORMATION! DEVICE IS STILL UNDER DEVELOPMENT.
SUBJECT TO CHANGES AND ERRORS!

Helmholz®
COMPATIBLE WITH YOU

W = 24 mm

DOOR MONITORING
Distance sensor:
cabinet is open or closed

ENVIRONMENTAL SENSORS
Air pressure, humidity, temperature,
vibration / movement / position

MEMORY CARD
MicroSD for recording
of measured values

PT100 - SENSORS
2x 2-wire or 1x 4-wire

DIGITAL I/O
Additional digital sensors
and alarm outputs

H = 109 mm

ETHERNET CONNECTOR
Web server and MQTT interface

D = 49 mm

700-210-1AA01
CABINET GUARD

The Helmholz CABINET GUARD continuously monitors the conditions inside the cabinet, such as temperature, humidity, air pressure and the condition of the cabinet door (unauthorized access).

By monitoring these environmental parameters, the CABINET GUARD can react to potential problems at an early stage, trigger alarms and thus prevent breakdowns or damage. This helps to maintain system integrity and operational efficiency.

Due to its temperature range of -30° to +70°, it is well suited for monitoring the environmental parameters of the control cabinet. Configuration is carried out conveniently via a web interface.

Measured values can be saved on the SD card or easily forwarded to other components or higher-level systems via MQTT and ModbusTCP.

MEASUREMENT
- Temperature, air pressure, humidity
- Movement, position, vibration, shock
- ext. temperature: 2x PT100 (2-wire) or 1x PT100 (3/4-wire)
- Closet door opening via distance sensor or digital input
- multi-purpose inputs for digital or PWM signals

COMMUNICATION, RJ45 /100MBit
- Transmission of status/value information via MQTT
- ModbusTCP server for data provision
- Email dispatch for alarms
- Digital outputs for alarms

USER INTERFACE
- Website for status and configuration
- Settings for IP address (static, DHCP), MQTT, ModbusTCP, PT100 calibration and 2/3/4-wire measurement, DI and DO function, alarm limit values
- Firmware update via website
- FCN button for factory setting, configuration, firmware update
- SD card for recording of measured values