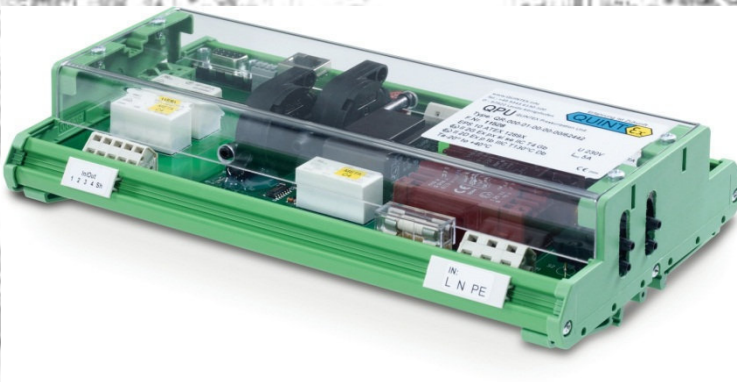


Experts for your systems

Ex-P



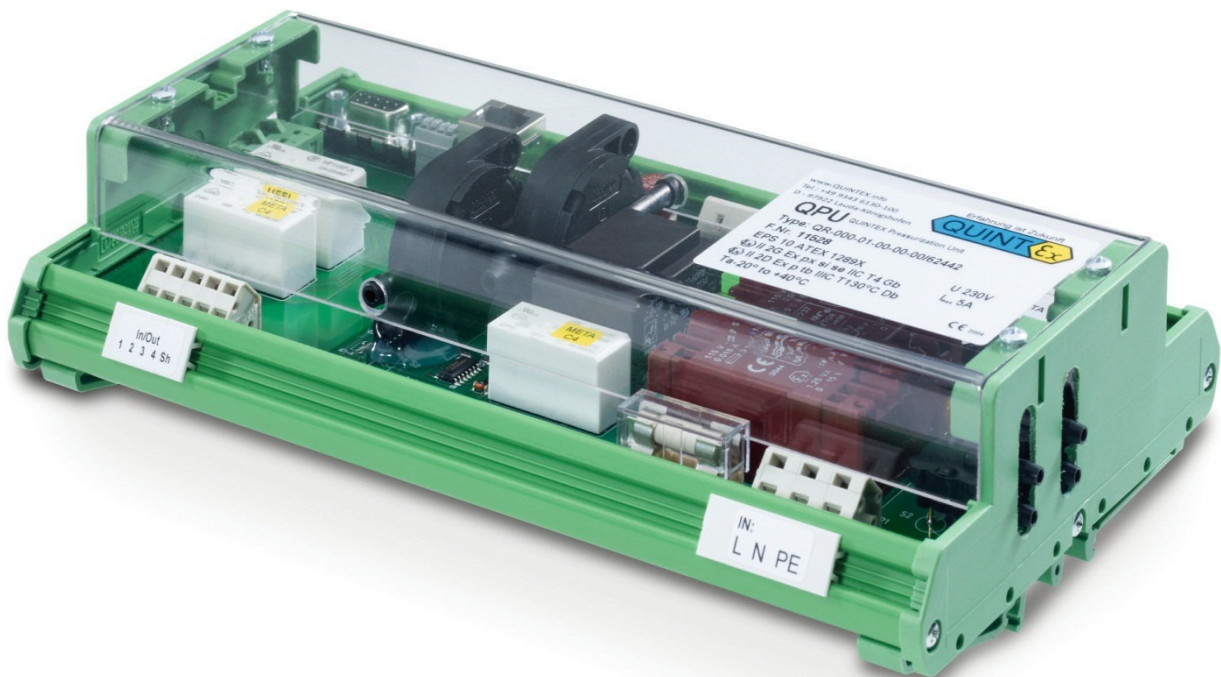
- Quality • Reliability • Delivery reliability
- Our knowledge for your application

**Proviso**

We reserve the right to make technical changes. Changes, errors, and literal errors do not justify any claim for damage compensation. For security components and systems, the relevant standards, as well as the relevant operating and assembly instructions have to be followed.

QUINGUARD®

Modular components overview



Ex approved pressure control unit for pressurized systems
in accordance to Ex px.

EX p Controller

- No flushing
- Installation within the ex p enclosure
- Din rail mounting
- Easy operation without programming
- Low priced operation
- Cost saving

Description

The newly developed pressure controller unit QUINGUARD[®] allows the use of non-hazardous components directly in the Zone 1/21 or 2/22 in conjunction with a pressurized enclosure. This is for switching of power and / or interfaces in the hazardous area.

After the release with an approved gas detector, the control cabinet or housing are pressurized. After reaching the desired internal pressure all devices will be activated.

During operation the control unit monitors the pressure being on the necessary level and if loosing pressure switch off all internal devices for safety reasons.



Presented without protection

Possible use:

- HMI-devices, printer, analyser
- Oil, chemical, petrochemical, pharmaceutical industry

Approvals:

Ex II 2 GD
Ex px si se IIC T4 Gb
Ex pb tb IIIC T130°C

Technical Data:

Dimension: 125x104x58,5mm (LxWxH)
Switching capacity: 5A
Monitored pressure: >5mbar (500 Pascal)

Voltage: AC 230V 50- 60Hz
DC 24V
Temperature range: -25°C bis +60°C

QUINGUARD[®] - Valve module

Valve module

- Compatible to the controller unit and all other QUINGUARD[®] - units
- Digital valve will be controlled automatically
- Compensates leakage automatically
- For mounting on DIN-rail TS 35

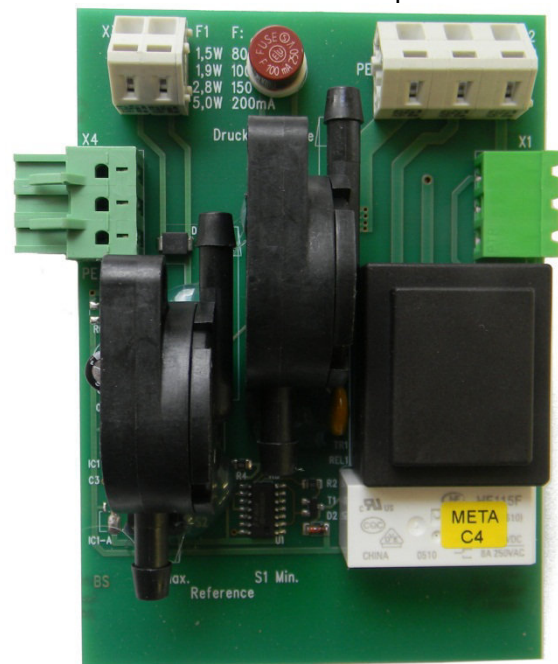
Description

The valve module is connected to the pressure switch modular unit and may only be used together with it.

The valve module has two pressure switches which operate at different pressures. The pressure switches are based on the same measurement principle as well as the pressure switch on the unit, with the differential pressure measurement. This means they must be connected to the same pressure as the reference pressure monitor unit.

Is an adjustable internal pressure in the housing reaches the switch, a pressure switch, switch on a digital valve. This increases the internal pressure. The second pressure switch is used to switch off the digital valve, also via an adjustable value. Through this connection and disconnection of the digital valve a leakage compensation is done which operates independently of changing leakages.

Presented without protection



Technical Data:

Dimension: (L x W x H)	125x 104x 58,5 mm
Switching capacity:	5A
Valve opens at:	6mbar (600 Pascal)
Valve close at:	9mbar (900 Pascal) (adjustable)
Valve voltage:	AC 230V 50- 60Hz DC 24V
Temperature range:	-25°C up to +60°C

Possible use:

Use for automatically leakage compensation with a digital valve.

Approvals:

Only for use with the QUINGUARD[®] - Controller.

QUINGUARD[®] Interface Modul

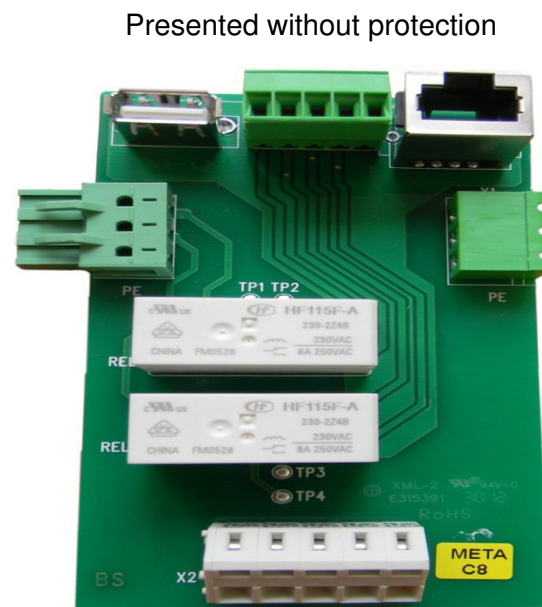
Interface module

- Compatible to the controller unit and all other QUINGUARD[®] units
- Shut off the data lines within the enclosure in the event of pressure lost
- Input of dataline will be switched off
- Output lines are pluggable

Description

Data lines leading into a Ex p cabinet, must be switched off in the event of lost pressure; this is the task of this interface module. The interface module has 4 normally open contacts are used for switching on or off of 4-wire data line. On the input side of this interface module is equipped with a 5-contact cage clamp provided to maintain the necessary clearances. At this point the input cable must be separated.

For the output side currently there are three connection types available: one USB 2.0, an RJ45 Ethernet 10/100Mbps and a 5-pole pluggable terminal block. The control of the interface module is done via the pressure control unit QUINGUARD[®] and may only be used in conjunction with this.



Technical Data

Input	5 pole cage terminal with PE
Output	5 pole pluggable Terminal block USB 2.0 RJ 45 female
Dimension	107 x 73 x 20mm (L x B x H)

Possible use:

All applications with data lines from the non-hazardous area or as a switchable interface.

Approvals:

Only for use with the QUINGUARD[®] Contoller.

Contactor SC

Patented and Ex certified contactors for Direct use in Pressurized cabinets

-
- No additional enclosure more necessary
 - Approved for use in Zone1 and Zone 2
 - Switching capacity up to 1000A / 540 KW
 - Ready for start
 - Version with screw terminals or cage-clamp terminals
 - Turning on and setting up can run by the customer
-

Description

The contactor of series SC used for switching service in a hazardous area. The contactors are already partly with auxiliary contact 3 pole or 4 pole. There are also optional auxiliary contacts available which can be used as switching control in a control room.

The rated operation capacity, as well as the rated operational current of each SC located in the table. Also the individual sizes and dimensions are listed in this table.

With 8 sizes, the SC covers the performance range up to 1000A. The power contactors feature box terminals with two Terminal Chambers to the SC 45/90. Thus, different conductor cross-sections can be safely wired. From SC 54/102, the wiring of terminals is performed.

Until SC 9/19 an auxiliary contact is present by default, there is also an extensive range of auxiliary switches available.

Possible Areas for use

- Use for high performance switching
- Use as a master switch

Technical data:


Dimension (mm)	see second page
Protection degree:	IP00
Mounting position:	vertical
Rated voltage:	AC-3 Operating 400V
Frequency:	50-60Hz
Switching voltage coil:	AC 230V
Ambient temperature:	-25°C bis +60°C



Options:

- Different power sizes
- Various optional auxiliary contact

Approval:

 II 2 GD Ex se IIC
 Certificate:
 EPS 09 ATEX 1239 U

Contactor SC



**Patented and Ex certified contactors
for direct use in Pressurized cabinets**

Characteristics of the individual contactors SC

QUINTEX Types	Rated power in KW	Rated current in Amps	Dimension W x B x D in mm
SC4,5/11	4,5	11	2 (45x85x97,4)
SC6,5/15	6,5	15	2 (45x85x97,4)
SC9/19	9	19	2 (45x85x97,4)
SC11/24	11	24	3 (55x115x132,1)
SC13/30	13	30	3 (55x115x132,1)
SC18/39	18	39	3 (55x115x132,1)
SC22/48	22	48	4 (90x170x160)
SC27/57	27	57	4 (90x170x160)
SC33/69	33	69	4 (90x170x160)
SC45/90	45	90	4 (90x170x160)
SC54/102	54	102	4 (90x170x160)
SC54/110	54	110	5 (140x180x208)
SC66/135	66	135	5 (140x180x208)
SC80/150	80	150	5 (140x180x208)
SC96/180	96	180	6 (160x200x216)
SC120/240	120	240	6 (160x200x216)
SC150/300	150	300	6 (160x200x216)
SC190/350	190	350	7 (250x286x232)
SC213/390	213	390	7 (250x286x232)
SC240/450	240	450	8 (250x296x232)
SC270/500	270	500	8 (250x296x232)
SC336/600	336	600	8 (250x296x232)
SC540/1000	540	1000	9 (515x392x252)