



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

Safety Instructions

Soliwave M

FQR50, FDR50

Zone 0/1 Ex ia IIC T4
Ex iaD 20/21 IP66 T98°C
IECEX BVS 09.0007X

Nivotester

FTR325

[Zone 0] [Ex ia] IIC
[Ex iaD]
IECEX BVS 09.0007X

XA484F-97

Safety instructions for electrical apparatus for explosion-hazardous areas
according to IEC standards

Soliwave M FQR50, FDR50

Nivotester FTR325

Associated Documentation

This document is an integral part of the following Operating Instructions:
KA205F/97, KA206F/97

The Operating Instructions which are supplied and correspond to the device type apply.

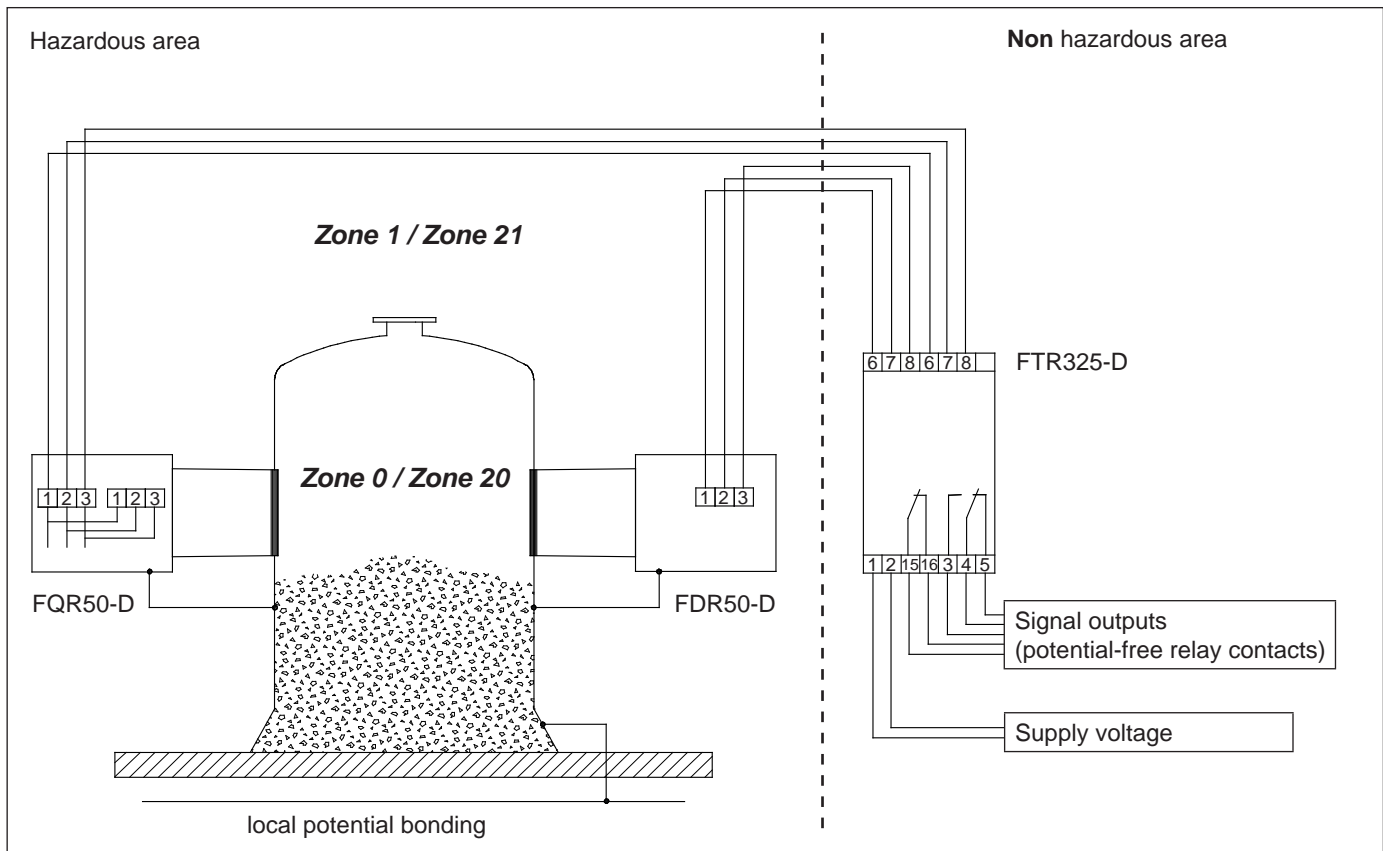
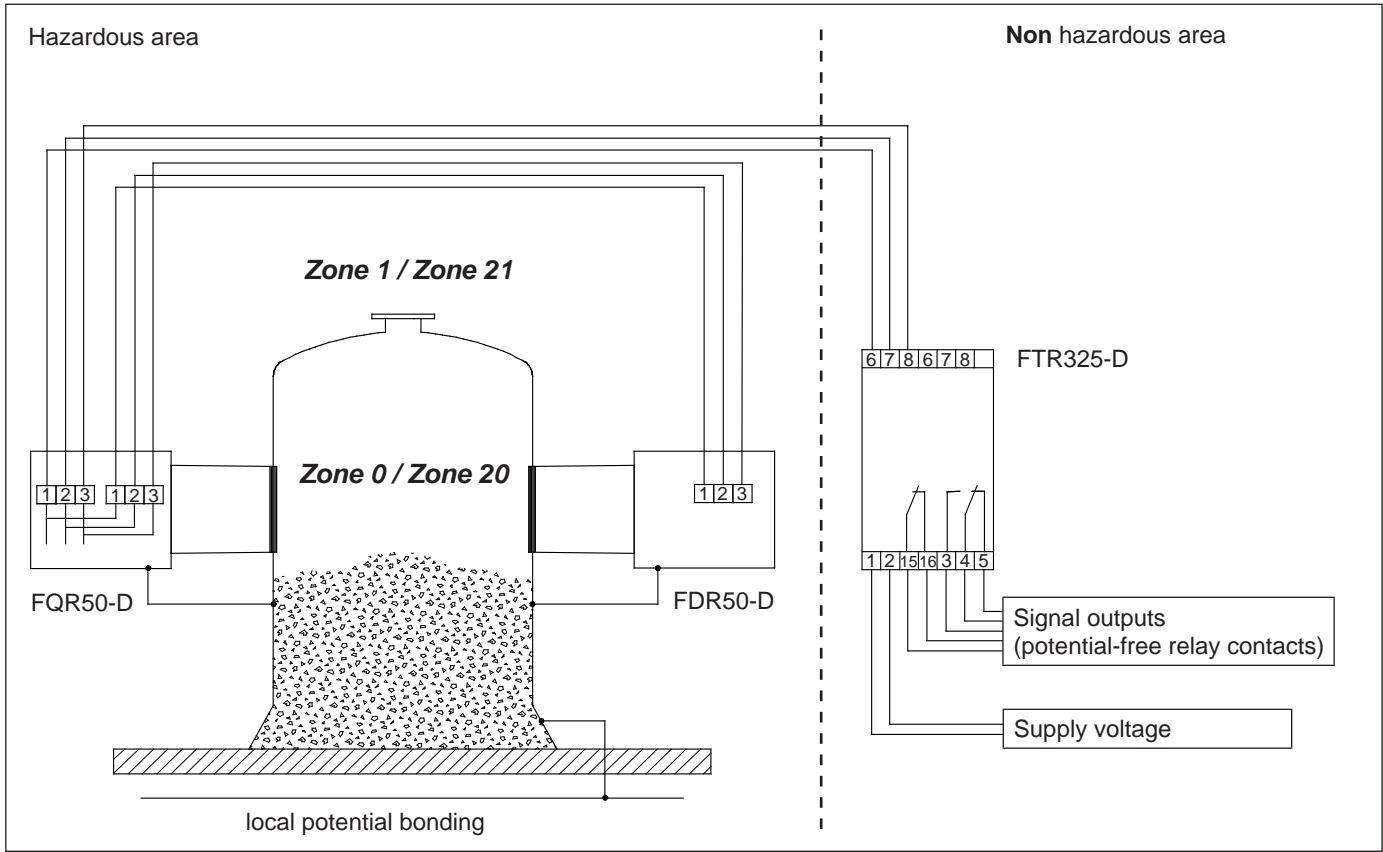
Supplementary Documentation

Explosion-protection brochure:
SD215F/00

Designation

Explanation of the labelling and type of protection can be found in the explosion protection brochure.

Designation of explosion protection (Soliwave M FQR50, FDR50)	Zone 0/1	Ex ia IIC T4 Ex iaD 20/21 IP66 T98°C
Designation of explosion protection (Nivotester FTR325)	[Zone 0]	[Ex ia] IIC [Ex iaD]



Safety notes:**Installation**

1. Install the device according to the manufacturer's instructions and any other valid standards and regulations.
2. Only install the devices in media for which the wetted materials have sufficient durability.
3. Only use the microwave barrier in the following combinations:
FQR50-D and FDR50-D with FTR325-D

All other combinations are not allowed and will lead to the loss of the certification!

4. Signal outputs (potential-free relay contacts) for connection to uncertified circuits with the following maximum values:
- U~ max. 253 VAC, I~ max. 2 A, P~ max. 500 VA, $\cos \varphi \geq 0,7$
- U= max. 40 VDC, I= max. 2 A, P= max. 80 W

Safety notes:**Zone 0**

1. Only operate devices in potentially explosive vapour/air mixtures under atmospheric conditions:
- $-20^{\circ}\text{C} \leq T \leq +70^{\circ}\text{C}$
- $0.8 \text{ bar} \leq p \leq 1.1 \text{ bar}$
2. If no potentially explosive mixtures are present, or if additional protective measures have been taken according to IEC 60079-14, the transmitters may be operated under other atmospheric conditions in accordance with the manufacturer's specifications.

Special conditions:**(X marking)**

1. The installation of the microwave emitter Soliwave M type FQR50-D and microwave receiver type FDR50-D in the wall to areas requiring Zone 0 equipment shall provide a degree of protection IP67 according to IEC 60529.
2. The installation of the microwave emitter Soliwave M type FQR50-D and microwave receiver type FDR50-D in the wall to areas requiring Zone 20 equipment shall provide a degree of protection IP6X according to IEC 60529.
3. The installation in the boundary wall between Zone 0 / Zone 1, Zone 20 / Zone 21 areas shall be carried out in such a way, that all metallic parts are in conductive contact with the boundary wall, or, in case of a wall made of plastics material, all isolated metallic parts are integrated in the local equipotential bonding.
4. Manufacturer's technical information related to use of the microwave emitter and receiver Soliwave M in contact with aggressive / corrosive media shall be observed.

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