



Level



Pressure



Flow



Temperature



Liquid  
Analysis



Registration



Systems  
Components



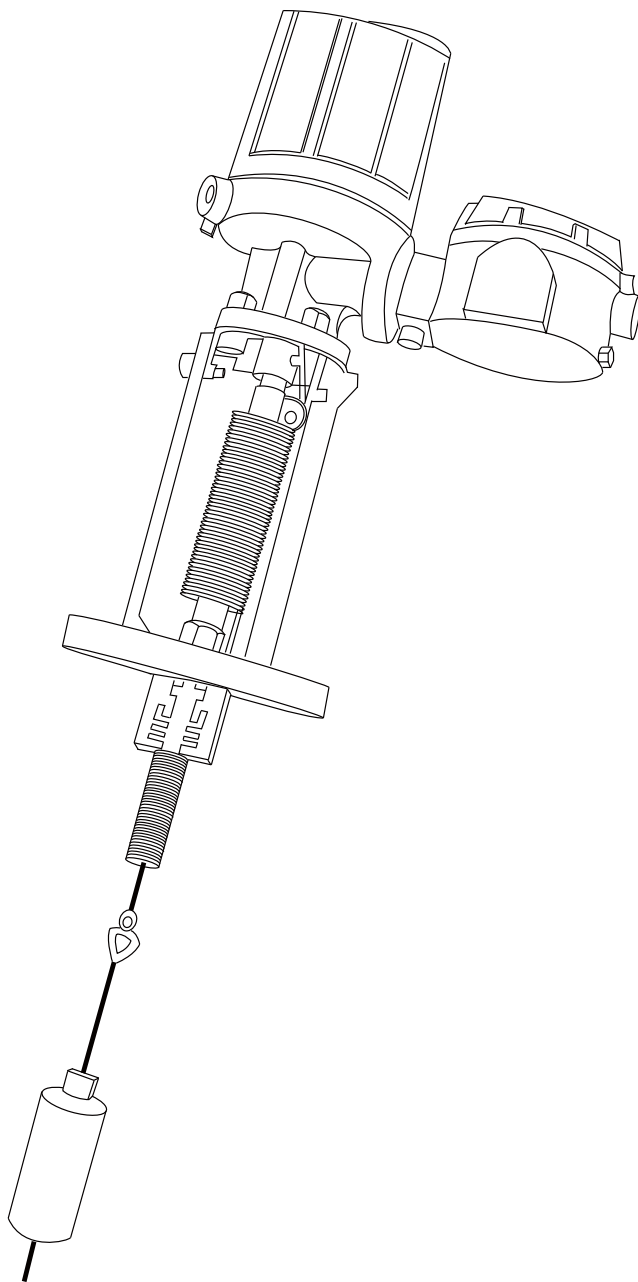
Services



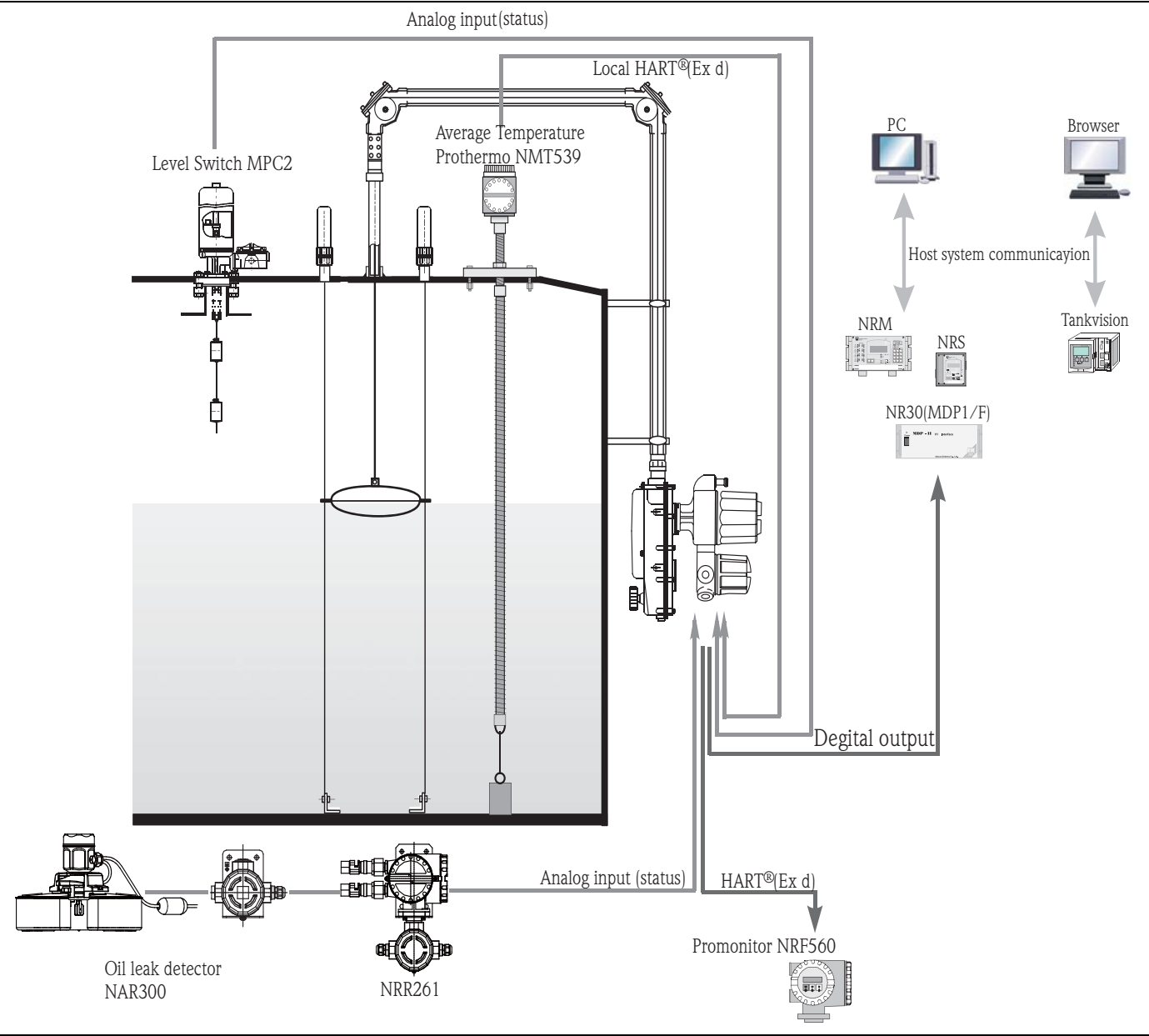
Solutions

## Operating Instructions

# Level Switch MPC2000 MPC2



# Basic device layout of the Magnet Level Switch MPC2



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# 1 Safety instructions

## 1.1 Designated use

The MPC series level controllers are displacement type instruments for installation on tanks. It provides control outputs from 1 to 4 contacts while activating microswitches with a magnet. Switching mechanism is designed to operate these contacts independent of one another. The instruments could therefore emit high and low alarm signals. It also performs pump control by utilizing the independent operations of the contacts

## 1.2 Installation, commissioning and operation

- Mounting, electrical installation, start-up and maintenance of the instrument may only be carried out by trained personnel authorized by the operator of the facility.
- Personnel must absolutely and without fail read and understand this Operating Manual before carrying out its instructions.
- The instrument may only be operated by personnel who are authorized and trained by the operator of the facility. All instructions in this manual are to be observed without fail.
- The installer must make sure that the measuring system is correctly wired according to the wiring diagrams. The measuring system is to be grounded.

## 1.3 Product Requirements

### Connection to the peripheral equipment

It is possible to connect to the peripheral equipment explained in this installation Instruments. Please refer to each installation Instruments when connecting.

## 1.4 Safety of operation

### Hazardous areas

Measuring systems for use in hazardous environments are accompanied by separate "Ex documentation", which is an integral part of this Operating Manual. Strict compliance with the installation instructions and ratings as stated in this supplementary documentation is mandatory.

- Ensure that all personnel are suitably qualified.
- Observe the specifications in the certificate as per national and local regulations.

### FCC approval

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.












### Caution!



Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## 1.5 Notes on safety conventions and symbols

In order to highlight safety-relevant or alternative operating procedures in the manual, the following conventions have been used, each indicated by a corresponding symbol in the margin.

Safety conventions	
	<b>Warning!</b> A warning highlights actions or procedures which, if not performed correctly, will lead to personal injury, a safety hazard or destruction of the instrument
	<b>Caution!</b> Caution highlights actions or procedures which, if not performed correctly, may lead to personal injury or incorrect functioning of the instrument
	<b>Note!</b> A note highlights actions or procedures which, if not performed correctly, may indirectly affect operation or may lead to an instrument response which is not planned
Explosion protection	
	<b>Device certified for use in explosion hazardous area</b> If the device has this symbol embossed on its name plate, it can be installed in an explosion hazardous area
	<b>Explosion hazardous areas</b> Symbol used in drawings to indicate explosion hazardous areas. – Devices located in and wiring entering areas with the designation “explosion hazardous areas” must conform with the stated type of protection
	<b>Safe area (non-explosion hazardous area)</b> Symbol used in drawings to indicate, if necessary, non-explosion hazardous areas. – Devices located in safe areas still require a certificate if their outputs run into explosion hazardous areas
Explosion protection	
	<b>Direct voltage</b> A terminal to which or from which a direct current or voltage may be applied or supplied
	<b>Alternating voltage</b> A terminal to which or from which an alternating (sine-wave) current or voltage may be applied or supplied
	<b>Grounded terminal</b> A grounded terminal, which as far as the operator is concerned, is already grounded by means of an earth grounding system
	<b>Protective grounding (earth) terminal</b> A terminal which must be connected to earth ground prior to making any other connection to the equipment
	<b>Equipotential connection (earth bonding)</b> A connection made to the plant grounding system which may be of type e.g. neutral star or equipotential line according to national or company practice

2 Identification

2.1 Device designation

2.1.1 Nameplate

The following technical data are given on the instrument nameplate:

①

Order Code

②

Serial No.

③

Explosion model

④

Tag No.

Order code

Printed

MPC2-abcBxxxxxxxxx

MPC-2abcEB

MPC2-abcExxxxxxxxx

MPC-2abcE

MPC2-abcBxxxxxxxxx

MPC-2ab1EB

MPC2-abcExxxxxxxxx

MPC-2ab1E

MPC2-abcBxxxxxxxxx

MPC-2ab1EB

MPC2-abcExxxxxxxxx

MPC-2ab1E

MPC2-abcBxxxxxxxxx

MPC-2a1cEB

MPC2-abcExxxxxxxxx

MPC-2a1cE

eg: MPC2-304Bxxxxxxxxx → MPC-2304EB

\*Refer to approved type

液面警報器 / Level Controller

④

Order Code MPC2 - ①

Serial No. ②

防爆型式 / Explosion model: ③

防爆構造 / Protection class: d2G4

定格:

接点容量 (1接点容量) / Contact output (1 contact)

AC 250V 1050VA max.

DC 250V 120VA max.

電源を切ってから計器の蓋を開けてください。

Be sure to cut off the power before opening the cover.

エンドレスハウザー山梨株式会社

Endress+Hauser Yamanashi Co., Ltd.

Yamanashi 406-0646 Made in Japan NP-1083-7

Approved type

MPC2- a b c d

↑ External Design

0 Without guide pipe

1 Internal pipe type

2 Outer pipe type (side-side)

3 Outer pipe type (side-bottom)

↑ Radiation Fins

0 Without fin

1 With fin (single fin, double fin)

↑ Switching Point

1 1 x Level

1 x FRT overflow detection

1 xCRT overflow detection

2 2 x Level

3 3 x Level

4 4 x Level

↑ Cable entry

E PF(G)3/4

EB With cable connector (TF16-11/TF22-13/TF22-15/TF28-18)

Fig. 1: Name plate

## 2.2 Ordering Information

<b>010</b>	<b>Type:</b>					
	0	Not selected				
	1	Internal pipe				
	2	External pipe (side-side inst. 25A/1")				
	3	External pipe (side-bottom inst. 25A/1")				
<b>020</b>	<b>Heat Radiation:</b>					
	0	w/o fin, max. 100°C				
	1	Double fin max. 250°C				
	2	Single fin max. 150°C				
<b>030</b>	<b>Switch count:</b>					
	1	1 x Level				
	2	2 x Level				
	3	3 x Level				
	4	4 x Level				
	5	1 x FRT Overflow detection				
	6	1 x CRT Overflow detection				
<b>040</b>	<b>Approval:</b>					
	B	Flame proof d2G4, TIIS + cable gland				
	E	Flame proof d2G4, TIIS				
	W	Weather proof IP65				
	X	Weather proof IP65 + cable connector				
	9	Special version, TSP-no. to be spec				
<b>050</b>	<b>Funcion:</b>					
	0	Basic version				
	9	Special version, TSP-no. to be spec				
<b>060</b>	<b>Process Connection, Top Mounted Flange:</b>					
	3	10K 65A RF, SUS304, JIS flange B2220				
	4	10K 65A RF, SUS316, JIS flange B2220				
	1	10K 80A RF, SUS304, JIS flange B2220				
	2	10K 80A RF, SUS316, JIS flange B2220				
	S	10K 100A RF, SUS304, JIS flange B2220				
	T	10K 100A RF, SUS316, JIS flange B2220				
	7	20K 65A RF, SUS304, JIS flange B2220				
	8	20K 65A RF, SUS316, JIS flange B2220				
	5	20K 80A RF, SUS304, JIS flange B2220				
	6	20K 80A RF, SUS316, JIS flange B2220				
	C	2-1/2"150lbs RF, SUS304, ANSI flange B16.5				
	D	2-1/2"150lbs RF, SUS316, ANSI flange B16.5				
	G	2-1/2"300lbs RF, SUS304, ANSI flange B16.5				
	H	2-1/2"300lbs RF, SUS316, ANSI flange B16.5				
	A	3" 150lbs RF, SUS304, ANSI flange B16.5				
	B	3" 150lbs RF, SUS316, ANSI flange B16.5				
	E	3" 300lbs RF, SUS304, ANSI flange B16.5				
	F	3" 300lbs RF, SUS316, ANSI flange B16.5				
	U	4" 150lbs RF, SUS304, ANSI flange B16.5				
	V	4" 150lbs RF, SUS316, ANSI flange B16.5				
	L	65A 150lbs RF, SUS304, JPI flange 7S-15				
	M	65A 150lbs RF, SUS316, JPI flange 7S-15				
	Q	65A 300lbs RF, SUS304, JPI flange 7S-15				
	R	65A 300lbs RF, SUS316,JPI flange 7S-15				
	J	80A 150lbs RF, SUS304, JPI flange 7S-15				
	K	80A 150lbs RF, SUS316, JPI flange 7S-15				
	N	80A 300lbs RF, SUS304, JPI flange 7S-15				
	P	80A 300lbs RF, SUS316, JPI flange 7S-15				
	W	100A 150lbs RF, SUS304, JPI flange 7S-15				
	X	100A 150lbs RF, SUS316, JPI flange 7S-15				
	9	Special version, TSP-no. to be spec.				
<b>MPC2-</b>						Product designation (part 1)

[illegible]

**Note!**

Order Info. 070 "Switch position"

When alarm point is 3 or 4 points and select "1: lower +upper", if you do not specify, we set the following specification.

- 3 points : 2 upper limit, 1 lower limit
- 4 points : 2 upper limit, 2 lower limit

Order Info. 090 "Set point"

- Without internal pipe/external pipe, overflow alarm
  - Please specify a setting length from top mounted flange bottom.
- with internal pipe
  - with length of internal pipe plate + attached gasket + mounting gasket (6+2+2mm) in mind, please specify a setting length from top mounted flange bottom.
- with external pipe
  - with length of mounting gasket (2mm) in mind, please specify a setting length from top mounted flange bottom.
- minimum setting length
  - 1 point length (H) is more than 300mm. Please specify alarm interval with more than 150mm.

### 2.3 Scope of delivery

**Caution!**

It is essential to follow the instructions concerning the unpacking, transport and storage of measuring



instruments given in the chapter "Incoming acceptance, transport, storage" .

The scope of delivery consists of:

- Assembled instrument

Accompanying documentation:

- Operating Instruction (this manual)

## **3 Installation**

### **3.1 Incoming acceptance, transport, storage**

#### **3.1.1 Incoming acceptance**

Check the packing and contents for any signs of damage.

Check the shipment, make sure nothing is missing and that the scope of supply matches your order.

#### **3.1.2 Transport**

Caution!

Follow the safety instructions and transport conditions for instruments of more than 18 kg.

#### **3.1.3 Storage**

Pack the measuring instrument so that is protected against impacts for storage and transport. The original packing material provides the optimum protection for this.

The permissible storage temperature is -10... + 60 °C

## 4 Assembly and Installation

### 4.1 Dimensions

Switch point:1

Without guide pipe	Internal pipe type: Tank top mounting	Radiation Fins
MPC20 □□ E	MPC21 □□ E	
External pipe type: side-side mounting	External pipe type: side-bottom mounting	Water proof type
MPC22 □□ E	MPC23 □□ E	

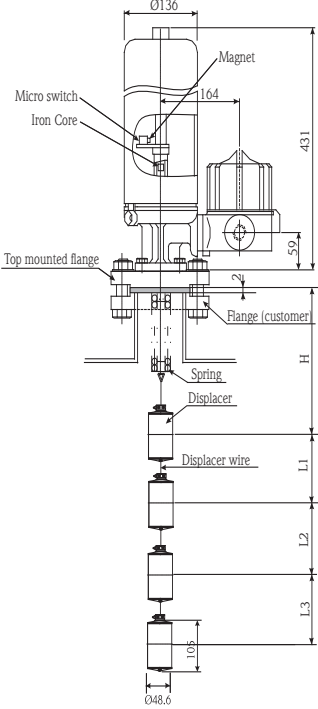
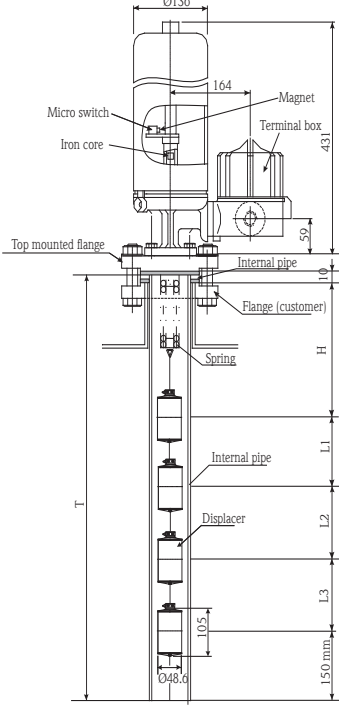
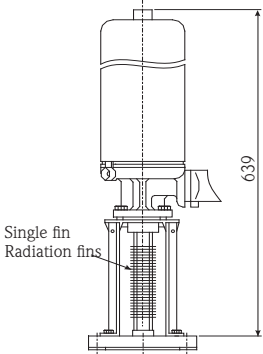
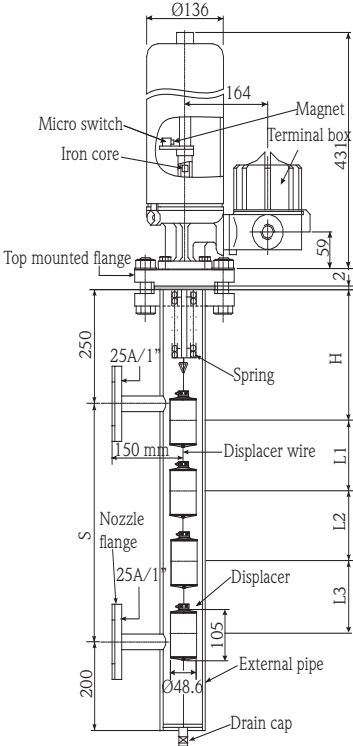
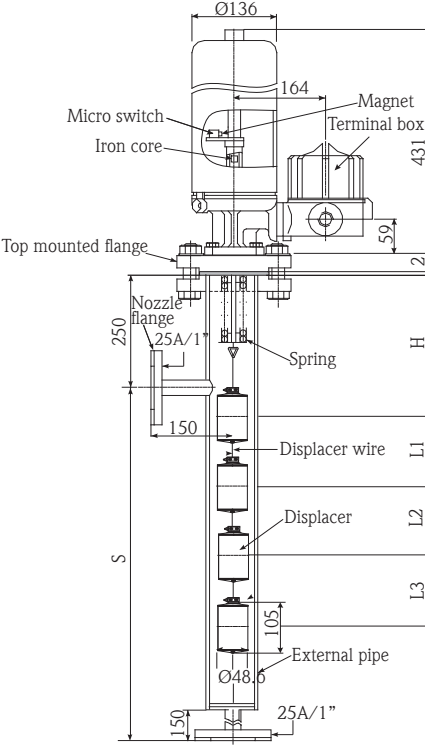
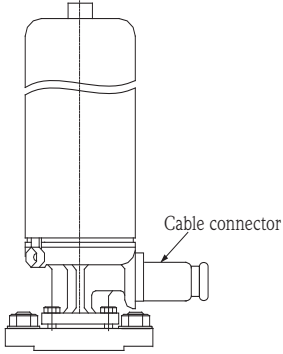
Switch point : 2

Without guide pipe	Internal pipe type tank top mounting	Radiation Fins
MPC20 □□ E	MPC21 □□ E	
External pipe type side-side mounting	External pipe type side-bottom mounting	Water proof type
MPC22 □□ E	MPC23 □□ E	

## Switch point : 3

Without guide pipe	Internal pipe type tank top mounting	Radiation Fins
MPC20 □□ E	MPC21 □□ E	
Outer pipe type side-side mounting	Outer pipe type side-bottom mounting	Water proof type
MPC22 □□ E	MPC23 □□ E	

Switch point : 4

Without guide pipe	Internal pipe type tank top mounting	Radiation Fins
MPC20 □□ E	MPC21 □□ E	
		
Outer pipe type side-side mounting	Outer pipe type side-bottom mounting	Water proof type
MPC22 □□ E	MPC23 □□ E	
		

## 4.2 Overflow alarm

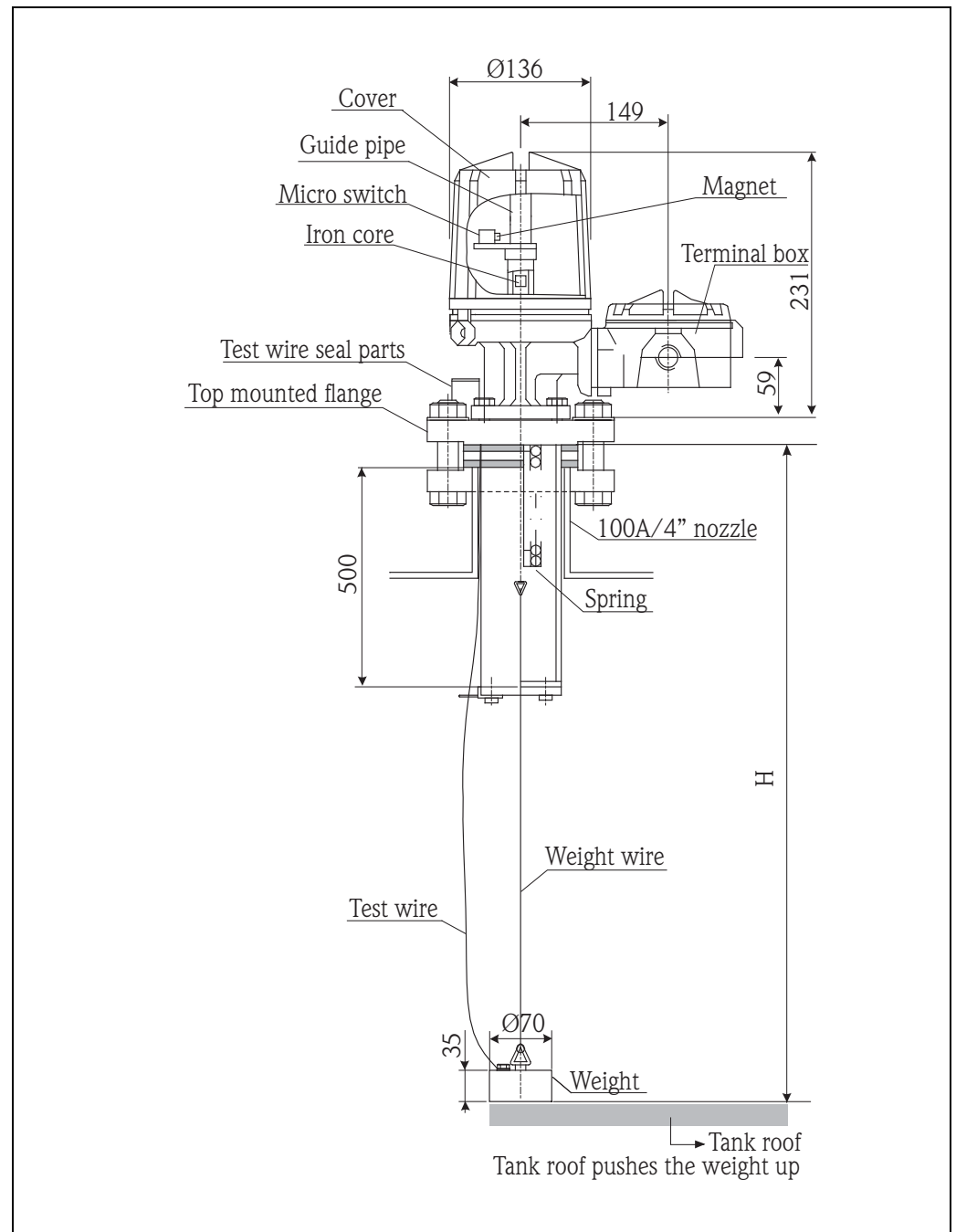
There are two specifications: displacer for CRT and weight type for FRT.

When displacer or weight reached set position, alarm signal is output to warn of overflow.

The operation and performance are same as 1 switch point type MPC. When liquid reaches the upper limit point, displacer rises and triggers alarm. MPC2 also has a checking function. By pulling the test wire and raising the displacer manually to the high limit point, an alarm can be simulated.

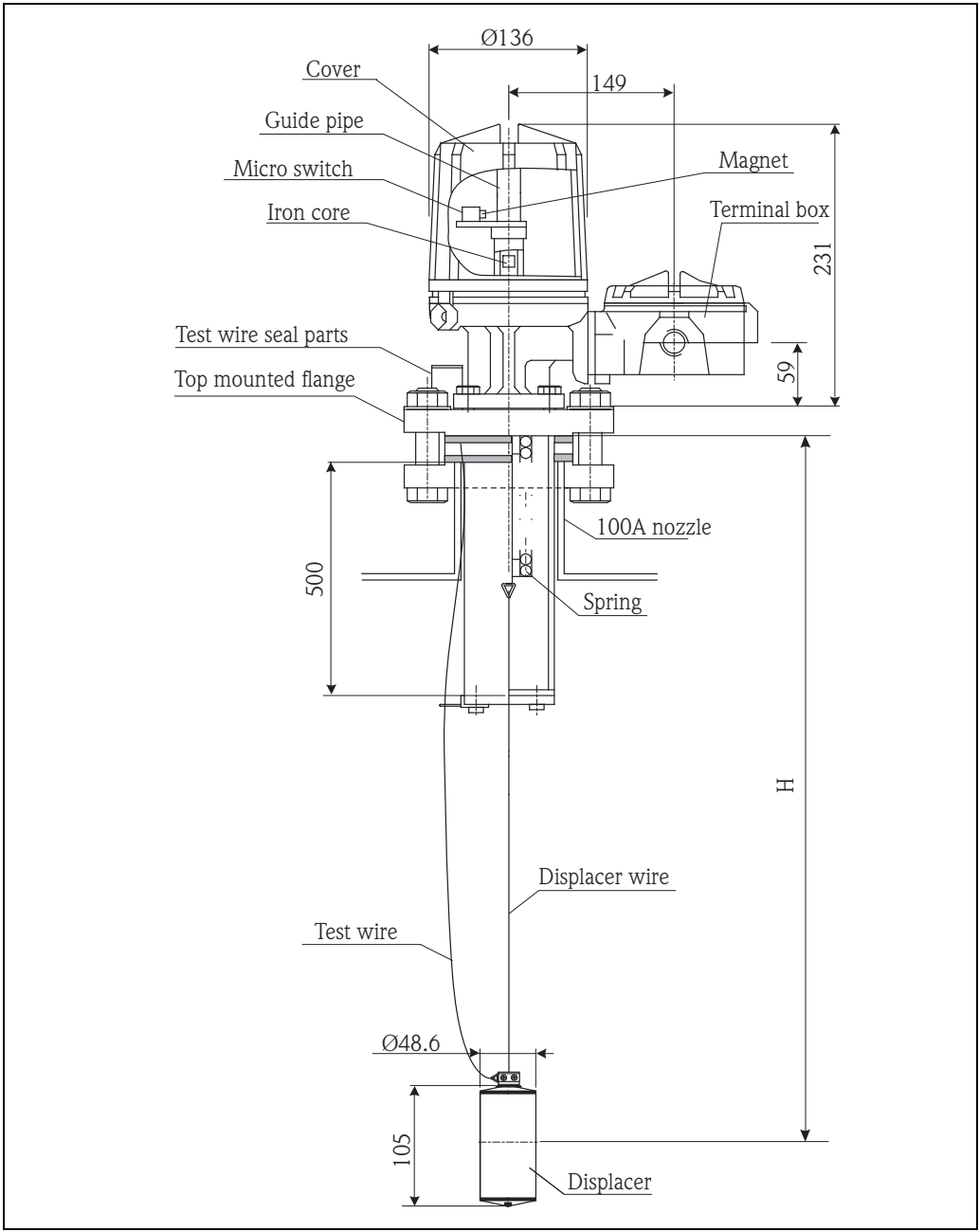
### 4.2.1 Floating roof tank (FRT)

**Weight type: (order code: 030 "Switch Count"...5; 1xFRT overflow detection)**



4.2.2 Cone-roof tank (CRT)

Displacer type (order info. 030 "Switch Count" ....6; 1xCRT overflow detection



Approved type

Approved type				
MPC2-	<div>a</div>	<div>b</div>	<div>c</div>	<div>d</div>
	↑	↑	↑	↑
	External Design	Radiation Fins	Switching Point	Cable entry
	0 Without guide pipe	0 Without fin	1 1 x Level	E PF(G)3/4
	1 Internal pipe type	1 With fin (single fin, double fin)	1 x FRT overflow detection	EB With cable connector
	2 Outer pipe type (side-side)		1 xCRT overflow detection	(TF16-11/TF22-13/TF22-15/TF28-18)
	3 Outer pipe type (side-bottom)		2 2 x Level	
			3 3 x Level	
			4 4 x Level	

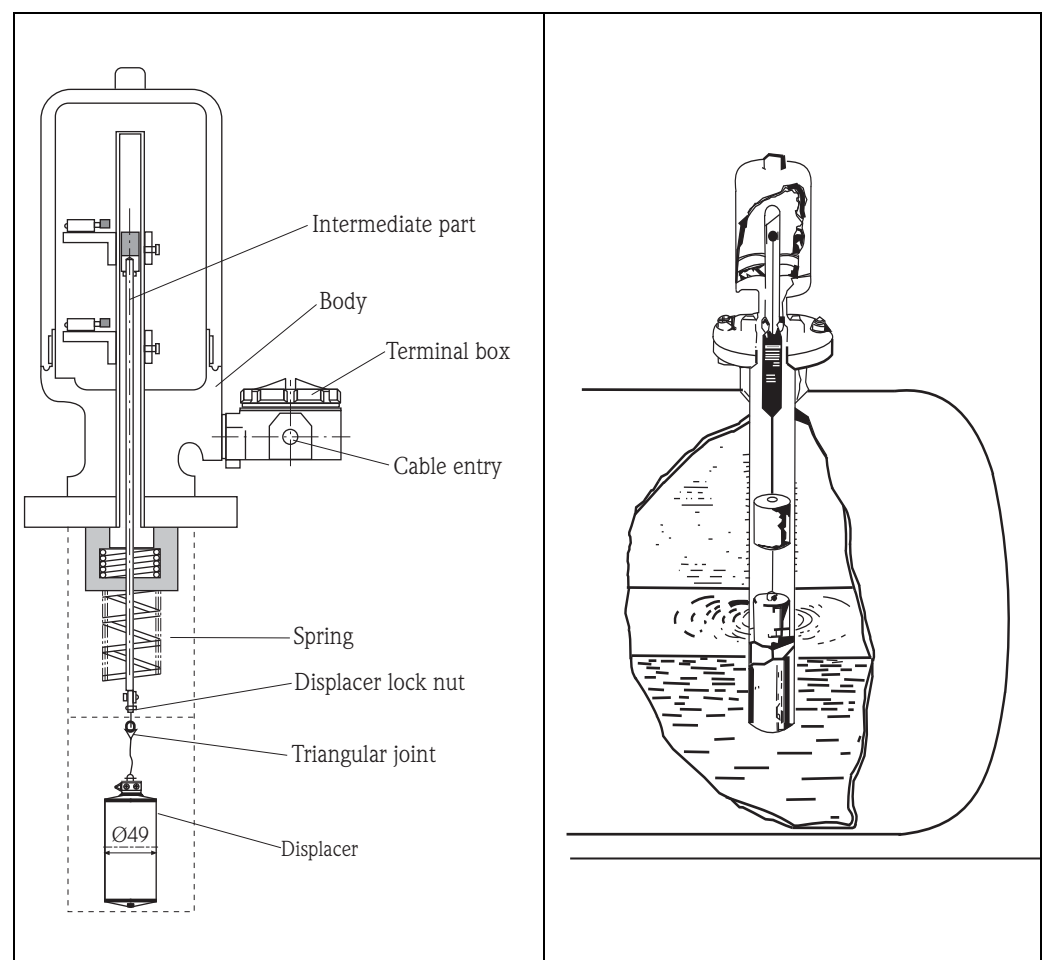


### 4.3 Mounting (Ex type)

The MPC are delivered in four separate parts Body, Spring (include Iron), Displacer, Pipe (Internal, outer). Please mount them as following and install it on the tank.

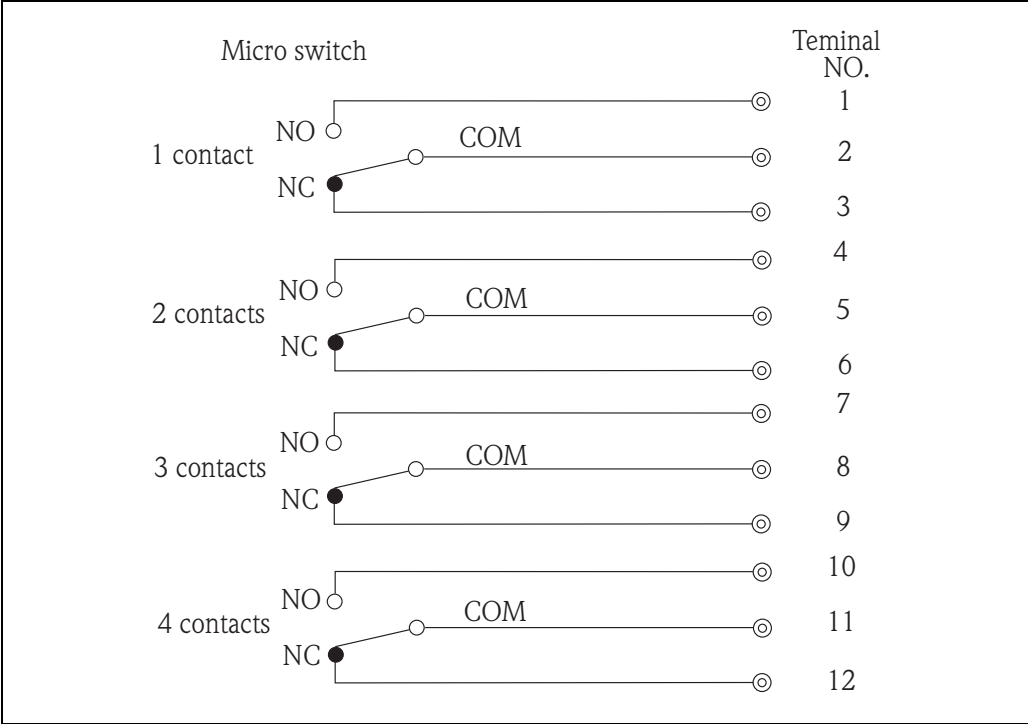
Note!

- Please handle the displacer wire with care, as the displacer is connected with wire. It may cause damage by kink.
- When connecting Displacer and Spring, use the fixed triangular joint with threaded displacer locknut. Be careful not to move the displacer position because it has already been adjusted at factory.
- Be careful not to bend intermediate shaft, when mounting spring and body.
- Mount locking screw of spring tight.
- After mounting as follows, connect with pipe.



# 5 Wiring

The figure shows the each switch contact condition when level is normal.



## **6 Alarm contact changing**

Alarm contact can change within the length range of wire on which is hanging a displacer. Please move the displacer position the length and direction that you wish to change. (ex. when going down 100mm upper alarm contact, go down 100mm the upper displace). Do not touch the switches in the body.

## **7 Operating and Maintenance**

There are no special notes about operating and Maintenance, but if the liquid is adhesive, please clean sealpipe, displacer, internal pipe.

## **8 Precaution for high temperature**

Please refer to MPC2 series Technical Informantion "Instruction for use in high temperature".

# 9 Troubleshooting

## 9.1 Spare Parts

You can order spare parts directly from your Endress+Hauser service organization by the corresponding spare parts.

The diagram illustrates the exploded view of the Level Switch MPC2. Key components are labeled with callouts: 21 (1 point, 2 points, 3-4 points), 11, 31, 12, 57, 55, 54, 56, and 53. The diagram shows the main body, terminal box, float holder, and spring assembly.

	Spear parts No.		Spear parts No.		
⑪	017880-5025	O-ring, main body, NBR	⑫	56004357	Flange packing, D120 X D70 X 2T
	017880-5026	O-ring, terminal box, small, NBR		56004358	Flange packing, D130 X D90 X 2T
⑳	017860-6323	Terminal box cover		56004359	Flange packing, D160 X D115 X 2T
	017860-6324	Cover terminal box, large	⑤④	56004364	Float Holder
	017885-6316	Cover for main housing for 2 contacts	⑤⑤	56004532	Wire Holder
	017885-6316	Cover for main housing for 3+4 contacts	⑤⑥	017885-1839	Wire sleeve, dia.1.6 (10pcs/set)
③①	56004359	Blacket (High Temp.)	⑤⑦	017885-1837	Spring for 1 contact (4g)
	017885-1836	Switch bracket assembly		017885-1838	Spring for 2 contact (5g)
⑤③	017885-1841	Displacer SS316 (100H x 50 dia.)		017885-1849	Spring for 3 contact (7g)
	017885-1842	Displacer SS316 (150H x 50 dia.)		017885-1850	Spring for 4 contact (8g)

## 9.2 Failure and Remedy

Failure	Possible reason	Remedy
Signal is not generated	<ul style="list-style-type: none"> <li>■ Iron core does not move because intermediate shaft is bent.</li> <li>■ Micro switch failure.</li> <li>■ Spring breaks down by sticky substance.</li> <li>■ Displacer does not work because device mount flange is bent.</li> <li>■ Displacer sinks.</li> </ul>	<ul style="list-style-type: none"> <li>■ Remove device and fix the bent intermediate shaft.</li> <li>■ Replace micro-switch.</li> <li>■ Remove device and clean up or remove spring.</li> <li>■ Repair the mounting</li> <li>■ Replace displacer</li> </ul>
Signal is generated or is not generated	<ul style="list-style-type: none"> <li>■ Wiring is bad connection</li> <li>■ Lead-in conductor is bad connection</li> <li>■ Micro switch is bad connection(internal terminal of switch is bad connection and switch inside is contact fault)</li> </ul>	<ul style="list-style-type: none"> <li>■ Repair contact faults</li> <li>■ Correct the connection</li> <li>■ Replace Microswitch</li> </ul>
Upper/Lower setting position mis-alignment	<ul style="list-style-type: none"> <li>■ Liquid density changed</li> <li>■ Displacer and Iron core movement lack smoothness because device mounting is bent.</li> <li>■ Displacer weight increase because it has sticky substance.</li> </ul>	<ul style="list-style-type: none"> <li>■ Make a readjustment</li> <li>■ Repair mounting</li> <li>■ Replace device, pull displacer up and remove sticky substance.</li> </ul>

## 9.3 Return

The following procedures must be carried out before the instruments is sent to Endress+Hauser for repair:

- Always enclose a duly completed "Declaration of Contamination" form. Only then can Endress +Hauser transport, examine and repair a returned device.
- Enclose special handling instructions if necessary, for example, safety data sheet as per EN 91/155/EEC.
- Remove all residue which may be present. Pay special attention to the gasket grooves and crevices where fluid may be present. This is especially important if the fluid is dangerous to health, e.g. corrosive, poisonous, carcinogenic, radioactive, etc.

Note!

A copy of the "Declaration of Contamination" is included at the end of this operating manual.

Caution!

No instrument should be sent back for repair without all dangerous material being completely removed first, e.g. in scratches or diffused through plastic. Incomplete cleaning of the instrument may result in waste disposal or cause harm to personnel (burns, etc.). Any costs arising from this will be charged to the operator of the instrument.

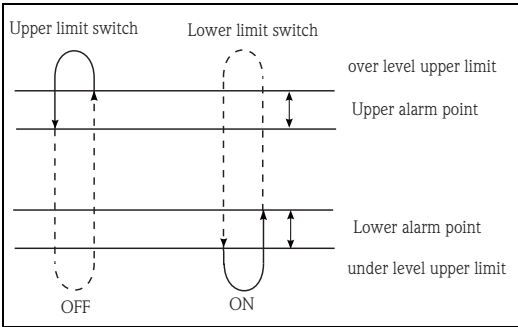
## 9.4 Disposal

In case of disposal, please separate the different components according to their material consistency.

## 9.5 Contact addresses of Endress+Hauser

The addresses of Endress+Hauser are given on the back cover of this operating manual. If you have any questions, please do not hesitate to contact your E+H representative.

10 Technical data

Accuracy	Without fin : (MPC2- +0++++++) 1 and 2 points: better than ±3mm (MPC2- +0++++++) 3 and 4 points: better than ±5mm, *at 25°C With Fin : Single fin (MPC2- +2++++++) 1 and 2 points:±7mm , 3 and 4 points:±10mm Double fin (MPC2- +1++++++) 1 and 2 points:±7mm , 3 and 4 points:±10mm
Maximum allow- able working pressure	2.94 Mpa (30kgf/cm <sup>2</sup> )
Allowable temperature	Ambient temperature: -20...60°C (not freezing or dewfall condition ) Liquid temperature: 0...100°C (Radiation Fine: max. 250°C) Refer to "Instruction for use in high temperature"
Wetted material	Refer to Order info. : 060: Process connection, Top mounted flange, 080: Pipe
Alarm contacts	1~4
Contact capacity	TIIS : max. AC250V, 1050VA max. DC250V, 120VA Allowable contact capacity : max. AC250V, 4.2mA (1~2 points) max. AC250V, 2.8mA (3~4 points) Please contact Endress+Hauser about specifications
Hysteresis	Standard: 1,2 : better than 7~25mm (in case of density = 1g/cm <sup>3</sup> ) 3,4 : better than 7~45mm (in case of density = 1g/cm <sup>3</sup> )  High temperature: 1,2 : better than 7~40mm (in case of density = 1g/cm <sup>3</sup> ) 3,4 : better than 7~40mm (in case of density = 1g/cm <sup>3</sup> )  

Mounting connection, Top mounted flange	<p><b>without internal pipe/Internal pipe:</b></p> <p>10K 80A RF, SUS304, JIS flange B2220  10K 80A RF, SUS316, JIS flange B2220  20K 80A RF, SUS304, JIS flange B2220  20K 80A RF, SUS316, JIS flange B2220  3" 150lbs RF, SUS304, ANSI flange B16.5  3" 150lbs RF, SUS316, ANSI flange B16.5  3" 300lbs RF, SUS304, ANSI flange B16.5  3" 300lbs RF, SUS316, ANSI flange B16.5  80A 150lbs RF, SUS304, JPI flange 7S-15  80A 150lbs RF, SUS316, JPI flange 7S-15  80A 300lbs RF, SUS304, JPI flange 7S-15  80A 300lbs RF, SUS316, JPI flange 7S-15</p> <p><b>External pipe (side-side installation, side bottom installation):</b></p> <p>10K 65A RF, SUS304, JIS flange B2220  10K 65A RF, SUS316, JIS flange B2220  20K 65A RF, SUS304, JIS flange B2220  20K 65A RF, SUS316, JIS flange B2220  2-1/2" 150lbs RF, SUS304, ANSI flange B16.5  2-1/2" 150lbs RF, SUS316, ANSI flange B16.5  2-1/2" 300lbs RF, SUS304, ANSI flange B16.5  2-1/2" 300lbs RF, SUS316, ANSI flange B16.5  65A 150lbs RF, SUS304, JPI flange 7S-15  65A 150lbs RF, SUS316, JPI flange 7S-15  65A 300lbs RF, SUS304, JPI flange 7S-15  65A 300lbs RF, SUS316, JPI flange 7S-15</p> <p><b>Overflow detection</b></p> <p>10K 100A RF, SUS304, JIS flange B2220  10K 100A RF, SUS316, JIS flange B2220  4" 150lbs RF, SUS304, ANSI flange B16.5  4" 150lbs RF, SUS316, ANSI flange B16.5  100A 150lbs RF, SUS304, JPI flange 7S-15  100A 150lbs RF, SUS304, JPI flange 7S-15</p>
Approval	Flame proof TIIIS d2G4
Protection Class	IP65
Construcyion	<p>Explosion proof (d2G4)type (E) : PF(G) 3/4, PF(G)1, PF(G) 1-1/4  TF16-11, TF22-13, TF22-15, TF28-18  NPT3/4</p> <p>Weather proof type (W) : 20 a.b.c (cable connector)</p>
Color	Metallic silver (internal type is not painted)
Dimendion	<p>Internal pipe type: Internal pipe length max. 4000mm  External pipe type: mounting nozzle interval (specified)  Caution!  Side and bottom flange are 25A/1" equivalent.</p>

## Declaration of contamination

Dear customer,

Because of legal determinations and for the safety of our employees and operating equipment, we need this "Declaration of contamination" with your signature before your order can be handled. Please, include the completely filled in declaration with the device and the shipping documents in any case. Add also safety sheets and / or specific handling instructions if necessary.

Type of device / sensor:	_____	Serial no.:	_____
Medium / concentration:	_____	Temperature:	_____ Pressure: _____
Cleaned with:	_____	Conductivity:	_____ Viscosity: _____

**Warning hints for medium used** (mark the appropriate hints)

☐

radioactive

☐

explosive

☐

caustic

☐

poisonous

☐

harmful to  
health

☐

biologically  
hazardous

☐

inflammable

☐

safe

**Reason for return**

_____
_____

**Company data**

Company:	_____	Contact person:	_____
	_____		_____
	_____	Department:	_____
Address:	_____	Phone:	_____
	_____	Fax / e-mail:	_____
	_____	Your order no.:	_____

I hereby certify that the returned equipment has been cleaned and decontaminated acc. to good industrial practices and is in compliance with all regulations. This equipment poses no health or safety risks due to contamination.

\_\_\_\_\_  
(Place, date)

\_\_\_\_\_  
(Company stamp and legally binding signature)



[WWW.endress.com/worldwide](http://WWW.endress.com/worldwide)

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