Differential pressure gauges with Bourdon tube

Nominal dia. 100 and 160 with movement of Brass or stainless steel



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Features

- High reliability and durability
- Compact movement
- Differential pressure given on indicating dial
- Accuracy class 1.6
- Static pressure indicated for both sides
- Movement Brass or st. st.
- Dual scale bar/mWS

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Description

These pressure gauges are suitable for measuring of liquid and gaseous medias, although this should not be viscous or susceptible to crystallization. For aggressive media, which attack brass, other versions with stainless steel medium wetted parts are available.

The two independently indicating Bourdon tube measuring systems work in a stardy housing.

Both pointers turn around the same axle and indicate the values separately. The pointer on the low-pressure side has the form of a dial. On this dial the pressure difference between the low and high pressure side is given which may not exceed 50% of the full measuring range. Each single value can be read off directly.

Ranges

0...0.6 bar to 0...600 bar

Applications

Industrial heaters, filter-monitoring, water-recycling plant

Technical data

Model MAN	DF 12	DG 12	DF16	DG 26	Options
Nominal size	100 mm	160 mm	100 mm	160 mm	
Symbol					
Measuring system	Two independa	ntly indicating Bourdon	tube measuring syster	ns	
Accuracy class	1.6 to DIN 1600	5			
Version	Standard		stainless steel	version	
Indicating range ²⁾	00.6 bar to 0. negative or pos	600 bar itive or negative/positiv	e gauge pressure		
Max. pressure	Alternating load	o full scale value : 0.9 times full scale va times full scale value	lue		
Housing	steel, black			stainless steel	back flange
Ring	steel, black			stainless steel	front flange
Window	Glass		laminated safe	ty glass	laminated safety glass
Dial	Aluminum, white	e, scale and printing bla	ack, double scale bar/	mWS	
Pointer	, , ,	nter: Aluminum, black Aluminum white, scale	d ±50% of main scale	range	marker pointer
Movement	Brass, bearing	parts argentun		stainless steel	
Measuring element		s; less steel 1.4571; purdon tube, 100 bar h	stainless steel	1.4571	
Connection	Brass		stainless steel	1.4571	
- position - thread	bottom radial, p 2 x G 1/2 male,	arallel entry DIN 16 288, HEX 22			other threads on request
Temperatures					
- medium - ambient	Tmin20°C, Tr Tmin20°C, Tr		Tmin20°C, 1	max. +100°C	
Temperature behaviour	0.3% / 10K on	deviation from normal t	emperature +20°C		
Protection	IP 33 acc. DIN	40 050 (EN 60 529 / IE	C 529)		
Throttle					ø 0.4; ø 0.8
Weight approx.	1.0 kg	1.6 kg	1.0 kg	1.6 kg	

⁵⁾ Tmax. +100 °C brazed

²⁾ Scale range must be selected in consideration of the highest static pressure applied! In heating circuits with circulating pumps the total pressure is calculated pressure given by the pump plus water column above. The pressure differential to be indicated should be no less than 1/8 of the full scale range. When ordering please state both:
a) static pressure applied, b) differential pressure to be indicated.





Dimensions

Model	Dia.	Dimensions (m	ım)								
		a ± 0.5	±0.5 b±1 X±1 D±1 G h±1 HEX								
PF12, PF16	100	15.5	82	32	100	G1/2 male	87	22			
PG12, PG16	160	15.5	86.5	32	160	G1/2 male	118	22			

Differential pressure gauges with diaphragm element

Nominal dia. 100, 160; with or without damping with or without electrical alarm contacts



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Features

- Measuring element aluminium
- Housing and Bayonet ring made of stainless steel
- Inductive or magnetic-spring contact
- Precise display and durability resulting from liquid damping

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Description

These differential pressure gauges are suitable for harsh conditions resulting from high demands on pressure measurement in industrial production plants. Depending on the application, the instruments can also be filled with damping fluid.

Gauges with liquid filling are damped thus eliminating pressure pulses or mechanical vibrations.

This prolongs the service life and the gauge display remains largely vibration free.

Differential pressure gauges with electrical alarm contacts are suitable for controlling or regulating process sequences with the aid of the process pressure. The media, non aggressive gases or liquids, should not be too viscous or tend to cristallize.

Principle

The process medium chambers (+) and (-) are separated by a diaphragm. The difference in pressure between the (+) and (-)-medium chambers deflects the diaphragm.

This deflection (measured travel) is transmitted to the pointer via a push rod causing a pointer deflection in proportion to the difference in pressure.

Ranges

0...25 mbar to 0...25 bar

Applications

Level measurement, filter monitoring, air-conditioning technology, flow measurement

Model MAN	DF2A	DG2A	DF2AM	DG2AM	DF2AI	DG2AI	Options		
Nominal size	100 mm	160 mm	100 mm	160 mm	100 mm	160 mm			
Symbol									
Contact type	none		magnetic-sp		current output 420 mA				
Number of contacts	none		3		2		four magnetic spring		
Position of cable connection	none			plug connection					
Accuracy class	1.6 to DIN	16005							
Indicating range	00.4 bar	to 0250 mb to 025 bar: (positive or ne		016 mbar scale approx. 180°					
Version	for max. tot	al overpressu	re (static press	sure) see tabl	e 1				
Overload protection	(+) or (-) si	de max. see ta	able 1						
Max. pressure		up to full scal load: 0.9 time	e value s full scale val	ue					
Housing	stainless st	eel, 1.4301, w	ith blow-out d	isc			liquid filling		
Ring	stainless st	eel 1.4301, ba	ayonet ring				front flange		
Window	Instrument	glass					laminated safety glass		
Dial	aluminum v	vhite, scale ar	nd printing blac	ck acc. DIN 16	6 109		special scales		
Pointer	aluminum, micro adjus	black stment pointer		ack acc. DIN	16 099				
Movement	Brass						zeropoint adjustment		
Measuring element		71 2.5 bar by, Duratherm	600 4 bar				special materials		
Sealings	NBR Perbu	nan (in contac	ct with medium	ו)			FPM (Viton)		
Connection	aluminum a	alloy							
- position - thread	bottom radi 2 x G 1/4 fe	al emale, DIN 16		back					
Measuring flanges	aluminum a	alloy		with venting					
Temperatures									
- medium - ambient		C, Tmax. +60° C, Tmax. +60°							
Temperature behaviour	0.3% / 10K	on deviation							
Protection	IP 54 acc. I	DIN 60529 / E	C529				IP 65		

Special accessories: pressure-compensating valve (1 - 5 spindles)

Electrical data and switching functions, see data sheet Electrical accessories, see data sheet

Table 1

Indication range	mbar 016 to 025	bar 04 to 06	01	01.6	02.5 to 010	016 to 025
Max. total overpressure (static pressure)	2.5 bar	10 bar				25 bar
Overload limit (+) and (-) side	2.5 bar	3	5	8	10	25

Technical data

Standard model





Dia.	Ranges	Dimension	Dimensions (mm)							
	(bar)	D1	D2	d	G	h ± 1	(kg) ¹⁾			
100	0.25	101	99	149	G 1/4	120	1.85			
	0.40	101	99	85	G 1/4	120	1.00			
160	0.25	161	159	149	G 1/4	150	2.25			
	0.40	161	159	85	G 1/4	150	1.40			

¹⁾ Weights of instruments with filling on request

Model with alarm contacts





Dia.	Dimensions (mm)					
	D1	D ₂	e	f ± 1	h ± 1	k
100	101	99	94	88	130	55
160	161	159	124	101	160	17.5

Pressure switches please refer...



... to our brochure "P3".

All stainless steel differential pressure gauges with electrical alarm contacts or current output

with or without liquid filling Nominal dia. 100, 160; accuracy class 1.6



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Features

- Resistant to aggressive media and the environment
- High overload protection
- Solid front design
- Alarm contacts or current output
- Precise display resulting from liquid damping
- Flushing and vent connection for the measuring chamber

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Description

The process medium chambers (+) and (-) are separated by a diaphragm. The difference in pressure between the (+) and (-)-medium chambers deflects the diaphragm. This deflection (measured travel) is transmitted to the pointer via a push rod causing a pointer deflection in proportion to the difference in pressure.

Metal bellows seal the two pressure chambers away from the gauge case. Metal supporting elements guarantee overload protection. The two downward outgoing process connections (G1/4 female, DIN 16288, Z type) are made of corrosion resistant material. For mounting purposes, it should be noted that: (+) represents high pressure and (-) low pressure input.

The pressure connection position may be varied according to the installation conditions.

The measuring element is tamper proof. The gauges can be used with gaseous, liquid and also chemically aggressive media as well as in aggressive environments, but not with highly viscous or crystallizing media.

Description of function

- 1. Measuring diaphragm
- 2. Metallic bellows
- 3. Connecting rod
- 4. Movement
- 4. Wovernent



Ranges

0...16 mbar to 0...25 bar and all corresponding ranges for negative and positive overpressure

Applications

Level measurement, filter monitoring; flow measurement; chemical and process engineering; food industry

	-		With ala	arm contact	ts ¹⁾		With curr output ²⁾	ent	Options
Model MAN	DF25	DG 25	DF 25 M 1	DG 25 M 1	DF 25 12	DG 25 12	DF 25 (A4),(A0)	DG 25 (A4),(A0)	
Nominal size	100	160	100	160	100	160	100	160	
Symbol									
Fluid filling	none								
Contact type	none		magnet contact	ic-spring	inductiv contact		current o	output	
Contact function			M 1 ³⁾	A A	voltage output: 0-5 V, 0-10 V alarm contact: for further contact functions see "mounting options" table				
Accuracy class	1.6 to D	IN 16005							1.0
Indicating range		ar to 028 correspon		es for negat	ive and p	ositive gau	ige pressur	e	
Max. pressure		ad: up to f ing load: 0							
Overload protection				Ill scale val ee table as		only up to n	nax. total p	ressure	
Max. total overpressure (static pressure)				mbar: max.					
Housing	stainles	s steel 1.4	301 with b	low-out dis	C				solid front version to DIN 16006
Bezel	bayonet	t ring, stair	nless steel	1.4301, br	ight				
Mounting		easuring tu							Measuring gauge holder for wall or pipe mounting dia. 2"/dia. 62 or mounting bore in flange
Window	laminate	ed safety g	lass						
Dial	aluminu	m, white, s	scale and	printing bla	ck (DIN 1	6109)			
Pointer	adjustal	ole pointer	, aluminum	n, black					
Movement	stainles								zero-point adjustment
Measuring element	250 m	bar: stainle	ess steel 1	.4571, > 25	50 mbar N	ViCrCo-allo	y (Durathe	rm)	
Measuring chamber, connection - position - thread	bottom,	s steel 1.4 (DIN 1628 /4 female			connection left, right, rear connection: male thread				
Protection	IP 45 acc. DIN 40 050								
Temperatures									
- medium - ambient	max. +100°C min20°C, max. +60°C								medium: 130°C
Accessories									valve block (3-spindle pressure- compensation and shut-off valve). Attachment of diaphragm seal on request
Electrical connection				ocket PA 6 and PG 13			Cable se PG 13.5	t	

Maximum total overpressure/overload protection									
Range	Max. total overpressure (static pressure)	Overload protection on both sides max.							
016 mbar to 040 mbar	2.5 bar	2.5 bar							
060 mbar to 0250 mbar	6 bar	2.5 bar							
0400 mbar	25 bar	4.0 bar							
00.6 bar	25 bar	6.0 bar							
01 bar	25 bar	10 bar							
01.6 bar	25 bar	16 bar							
02.5 to 025 bar	25 bar	25 bar							

- 1) Electrical alarm contacts: see separate leaflet
- 2) Electrical current outputs: see separate leaflet
- Switch functions for inductive and magnetic-spring contacts
 - clockwise pointer motion: normally closed (N/C) or normally open (N/O)
 - The letter charcterizes the contact designation Code "M" for magnetic snap-action contact Code "I" for inductive contact
 - Following numbers indicate the switching operation
 - 1: normally open (N/O)
 - 2: normally closed (N/C)
 - 3: single pole double throw (SPDT)
 - The quantity of numbers indicate the quantity of contacts

	With liq	uid filling	With ala and liqu	rm contac id filling	ts ¹⁾		With curre and liquic		Options
Model MAN	DF 75	DG 75	DF 75 M 1	DG 75 M 1	DF 75 12	DG75 12	DF 75 (A4),(A0)	DG 75 (A4),(A0)	
Nominal size	100	160	100	160	100	160	100	160	
Symbol									
Fluid filling	glycerir	ne	silicone	oil					
Contact type	none		magneti contact	c-spring	inductive contact	e	current c	output	
Contact function			M 1 ³⁾	A A	voltage output: 0-5 V, 0-10 V alarm contact: for further contact functions see "mounting options" table				
Accuracy class	1.6 to [DIN 16005							1.0
Indicating range		oar to 02 correspon		es for neg	ative and p	ositive ga	uge pressu	re	
Max. pressure		bad: up to t ting load: (alue				
Overload protection		-) side: 10 pressure) 1				nly up to m	nax. total pi	essure	
Max. total overpressure (static pressure)		016 mba 0400 mb							
Housing	stainles	ss steel 1.4	1301 with I	blow-out d	isc				solid front version to DIN 16006
Bezel	bayone	et ring, stai	nless stee	l 1.4301, k	oright				
Mounting	rigid m	easuring le	ad						Measuring gauge holder for wall or pipe mounting dia. 2"/dia. 62 or mounting bore in flange
Window	laminat	ted safety	glass						
Dial	alumin	um, white,	scale and	printing b	lack (DIN 1	6109)			
Pointer	adjusta	ible pointer	, aluminur	n, black					
Movement		ss steel							zero-point adjustment
Measuring element				1.4571, >2	250 mbar l	NiCrCo-allo	oy (Durathe	erm)	
Measuring chamber, connection - position - thread	bottom	ss steel 1.4 , (DIN 1628 I/4 female			connection left, right, rear connection: male threads				
Protection	IP 65								
Temperatures									
- medium - ambient	max. + min2	100°C 0°C, max.	+60°C		medium: 130°C				
Accessories									valve block (3-spindle pressure- compensation and shut-off valve). Attachment of diaphragm seal on request
Electrical connection				ocket PA 6 and PG 13			cable soc gland PG		

Note for installation: (-) low pressure; (+) high pressure

- 1) Electrical alarmcontacts: see separate leaflet
- 2) Electrical current outputs: see separate leaflet
- 3) Switch functions for inductive and magnetic-spring contacts
 - clockwise pointer motion: normally closed (N/C) or normally open (N/O)
 - The letter charcterizes the contact designation Code "M" for magnetic snap-action contact Code "I" for inductive contact
 - Following numbers indicate the switching operation
 - 1: normally open (N/O)
 - 2: normally closed (N/C)
 - 3: single pole double throw (SPDT)
 - The quantity of numbers indicate the quantity of contacts

Standard version: Model BR DF25..., DG25... Connection 2 x G1/4 female threads, bottom





Option

Connection 2 x G 1/4 female thread, right hand side



Dia.	Range	pe Dimensions (mm)												Weight
	(bar)	а	b	D1	D ₂	d	е	G	h ± 1	Н	Х	Y	Z	(kg)
100	0.25	15.5	49.5	101	99	140	17.5	G1/4	161	87	37	99	69	2.70
	0.25	15.5	49.5	101	99	78	17.5	G1/4	161	87	37	99	35	1.40
100	0.25	15.5	49.5	161	159	140	17.5	G1/4	191	117	37	129	69	3.40
	0.25	15.5	49.5	161	159	78	17.5	G1/4	191	117	37	129	35	2.10

Connection to DIN 16288, type Z

Installation options for alarm contacts

ıge	Alarm conta	act								
Nominal	Magnetic-sp	oring contact			Inductive	contact				
size	Number of	contacts			I					
	1	2	3	4 5)	1	2	36)	-		
	Full scale value from bar									
100	0.016	0.016	0.040	0.040						
160										
100					0.016	0.016	0.040			
160										
100	0.016	0.016	0.040	0.040						
160										
100					0.016	0.016	0.040			
160										
	size 100 160 100 160 100 160 100	Nominal size Magnetic-sp Number of d 1 100 0.016 160 0.016 100 0.016 160 0.016 100 0.016 100 100 100 0.016 100 100 100 0.016	Nominal size Magnetic-spring contact Number of contacts 1 2 Full scale value from t 100 0.016 0.016 100 0.016 0.016 0.016 100 0.016 0.016 0.016 100 100 0.016 0.016 100 0.016 0.016 100 100 0.016 0.016 100 100 0.016 0.016 100	Nominal size Magnetic-spring contact Number of contacts 1 2 3 Full scale value from bar 0.040 100 0.016 0.016 100 0.016 0.040 160 0.016 0.040 160 0.016 0.040 100 0.016 0.040 160 0.016 0.040 100 0.016 0.040	Nominal size Magnetic-spring contact Number of contacts 2 3 45) 1 2 3 45) Full scale value from bar 0.040 0.040 160 0.016 0.016 0.040 100 0.016 0.016 0.040 160 0.016 0.040 0.040 100 0.016 0.016 0.040 100 0.016 0.040 0.040 100 0.016 0.016 0.040	Nominal size Magnetic-spring contact Number of contacts Inductive of Number of contacts 1 2 3 45) 1 Full scale value from bar 5 1 1 100 0.016 0.040 0.040 0.016 100 0.016 0.040 0.016 0.016 100 0.016 0.040 0.040 0.016 100 0.016 0.016 0.040 0.040 100 0.016 0.016 0.040 0.040 100 0.016 0.016 0.040 0.040	$\begin{tabular}{ c c c c c c } \hline Nominal size & Magnetic-spring contact & Inductive contact \\ \hline Number of contacts & & & \\ \hline Number of contacts & & & \\ \hline 1 & 2 & 3 & 4^{5)} & 1 & 2 \\ \hline 100 & 0.016 & 0.016 & 0.040 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & 0.040 & & \\ \hline 100 & 100 & 0.016 & 0.016 & 0.040 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & 0.040 & & \\ \hline 100 & 0.016 & 0.016 & & \\ \hline 100 & 0.016 &$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		

⁵⁾ Possible only as special version ⁶⁾ Possible only as special version

Installation options for current outputs

Pressure ga	auge		Current out	tput		Current ou	tput and ala	arm contacts		
Model	Nom.	Pressure	Standard	Explosion	Standard	Current ou	itput			
	size	connection		proof version ⁶⁾	with power supply unit ⁶⁾	Standard Alarm contact		Explosion proof version ⁶⁾		
					unit					
						Magnetic spring	Inductive	Inductive	Magnet- spring	Inductive
DF 25 (A4),	(A0) 100	bottom	•	•	•					
DG 25 (A4),	(A0) 160	bottom/side								
DF75 (A4),	(A0) 100	bottom	•	•	•					
DG 75 (A4),	(A0) 160	bottom/side								
Option		- i			1					•
unfilled	100	bottom				•	•	•	•	•
	160	bottom/side								
filled	100	bottom				•	•	•	•	•
	160	bottom/side								

All stainless steel differential pressure gauges

Nominal dia. 100, 160; with or without damping with or without electrical alarm contacts with or without current output



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Features

- Measuring cell and housing of corrosion resistant materials, stainless steel
- Static pressure and overrange protection to 40 bar or optional 100 bar
- Alarm contacts or current output
- Flushing and vent connection on measuring chamber
- Differential pressure connection to DIN 19213
- · Vibration-free indication and durability by liquid filling

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Description

These differential pressure gauges are suitable for harsh conditions resulting from high demands on pressure measurement in production plants of the chemical or other comparable industries. By using high quality stainless steel for both measuring system and housing guarantees resistance against aggressive media and environment. Depending on their applications, the instruments can also be filled with damping fluid.

Gauges with liquid filling eliminate pulses or mechanical vibrations. This prolongs the service life and the gauge display remains largely vibration free.

Differential pressure gauges with electrical alarm contacts are suitable for controlling or regulating process sequences with the aid of the process pressure.

Principle

The heart of these differential pressure gauges is the measuring cell with two "hydraulically" coupled diaphragm elements, between which the pressure transmitting fluid is enclosed. If both diaphragm elements are subjected to different pressures this is transmitted to the movement which causes a deflection of the pointer proportional to the differential pressure.

Ranges

0...60 mbar to 0...25 bar

Applications

Level measurement, filter monitoring, flow measurement with a differential pressure probe

Model	MAN	DF2G	DG 2G	DF2GM	DG2GM	DF2GI	DG 2GI	DG2GA4	Options	
Nominal size		100	160	100	160	100	160	160		
Symbol										
Contact type / electrical output		none		magnetic-spring		inductive		420mA two wire	1)	
Number of contacts	3	none		3		3		none		
Position of cable connection		none		right hand	side, PG 13.	plug connection ²⁾				
Accuracy class		1.6 to DIN								
Indicating range		060 mba 00.4 bar plus all co								
Version		for max. to	100 bar/250 bar							
Overload protection	า	(+) or (-) s	100 bar/250 bar							
Max. pressure		static load								
Housing		St. steel 1	liquid filling							
Bezel		bayonet ri	front flange							
Window		laminated safety glass								
Dial		aluminum	special scale							
Pointer		adjustable aluminum		aluminum,						
Zero-point adjustme	ent	adjustable pointer adjustable part at housing at top								
Movement		Stainless steel								
Measuring element	I	St. steel, 1.4571 250 mbar NiCrCo alloy, Duratherm 600 400 mbar								
Sealing		FPM Viton (in contact with medium)							PTFE	
Connection		St. steel 1								
- position		bottom								
- thread ³⁾		2 x G1/2 female (DIN16288, type Z)							differential pressure connection to DIN 19213	
Measuring flanges, measuring cell		CrNi steel 1.4571, measuring cell filled with silicone oil						special filling, e.g. for oxygen		
Vent of measuring	cell	at ranges 250 mbar							0.4 bar	
Temperatures		, j								
- medium - ambient		Tmin25	°C, Tmax. +1 °C, Tmax. +6	0°C						
Temperature behav	/iour	0.4% / 10	K on deviation	on from norma	al temperature	e +20°C				
Protection		IP 54 acc.	IP 65							

1) Other electrical outputs on request

2) According to DIN 43 651

Special accessories: pressure-compensating valve (1 - 5 spindles)

3) Pressure-compensating valves with shut-off valves require thread G1/2 male on instrument

Standard model





Model	Ranges	Dimensions (mm)							
	(bar)	b	ø D1	е	G	h ± 1	p□	x	
DF2G	0.25	58.5 1)	101	17.5 1)	G 1/2	70	140	54	12.0
	> 0.25	58.5 1)	101	17.5 1)	G 1/2	66	80	54	3.5
DG2G	0.25	65.5 ₂)	161	17.5	G 1/2	70	140	54	12.4
	> 0.25	65.5 ₂)	161	17.5	G 1/2	66	80	54	3.9

1) Models DF 2G...M, DF 2G...1 with one alarm contact: plus 39 mm

2) Models DF 2G...M, DG 2G...1 with one alarm contact: plus 36 mm Models DG 2G...A4 with current output: plus 50 mm

Option

Mounting bracket for wall or pipe installation





Connection to DIN 16288 type Z