



Type 2035

Diaphragm valve

Guided microwave level measuring device

- Universal level measuring device for liquids and bulk materials
- 4... 20 mA/Hart 2 wires
- Insensitive to dust and steam
- ATEX approvals $\langle E_x \rangle$



Type 8802-GD Continuous TopControl system

Type 8644 Valve islands



PLC

The Type 8185 is a level measuring device
with cable or rod probe, designed for continu-
ous level measurement. The unit is suitable for
liquids, but also for solids, for industrial use in

Type 8635

SideControl Ex

all areas of process technology. With a measuring range of up to 32 m, the 8185 is best suited for tall vessels.

Even process conditions such as strong steam generation, density fluctuations or changes of the dielectric constant do not influence the accuracy of the measurement.

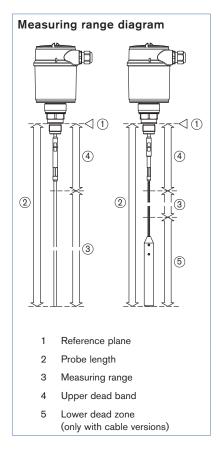
Build-up or condensation on the probe or vessel wall do not influence the measuring result.

General data			
Materials			
Housing / Cover	PBT, Stainless steel 316L / PC		
Seal ring / Ground terminal	NBR / Stainless steel 316L		
Wetted parts			
Process fitting / process seal	Stainless steel 316L (1.4435) and PCTFE / FKM		
Inner conductor			
(up to the separation cable/rod)	Stainless steel 1.4462		
Rod-ø 6 mm	Stainless steel 316L (1.4435)		
Cable-ø 4 mm with gravity weight	Stainless steel 316 (1.4401)		
Display	LCD in full dot matrix		
Weight			
Housing	890 g		
Rod-ø 6 mm	approx. 220 g/m		
Cable-ø 4 mm	approx. 80 g/m		
Gravity weight (only with cable version)	approx. 325 g		
Process fitting	Thread G or NPT - 3/4", 1"		
Length			
Rod-ø 6 mm	0.3 4 m - Lateral load: 4 Nm		
Cable-ø 4 mm	1 32 m - Max. tensile load: 5 KN		
Electrical connections	Cable gland M20 x 1.5		
Measuring type	Level of liquids and solids		
Min. dielectric figure	εr > 1.6		
Dead zone			
Rod-ø 6 mm	From top of probe: 80 mm - from bottom of probe: 0 mm		
Cable-ø 4 mm	From top of probe: 150 mm - from bottom of probe: 250 mm		
Measuring range	0.08 4 m or 0.15 32 m (see diagram on next page)		
Process temperature	-40 to 150°C (-40 to 302°F)		
Process pressure	-1 to 40 bar (-14.51 to 580.1 PSI) (-100 4000 kPa) (depends on		
	the process fitting)		
Temperature drift	0.06%/10K (Relating to the max. measuring range)		
Accuracy	See accuracy diagram, on next page		

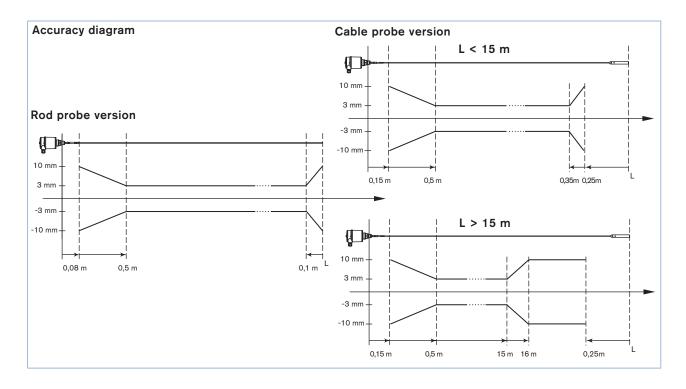
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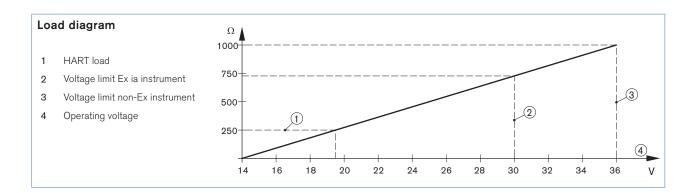
Electrical data Operating voltage 14 - 36 V DC or 14 - 30 V DC (Ex ia instrument) Lightening power consumption approx. 80 mW Permissible residual ripple < 100 Hz: U_a < 1 V 100 Hz: 10 kHz: U_a < 10 mV 100 Hz 10 kHz: U_a < 10 mV Output signal 4 20 mA/HART Resolution 1.6 μA Fault signal current output unchanged; 20.5 mA; 22 mA < 3.6 mA (adjustable) 22 mA Load see load diagram Integration time (63% of the input watable) 0 999 s, adjustable Environment -20 to +70°C (-4 to 158%) (operation and storage) Relative humidity Max. 75% (operation, max. 85% (storage); without condensation Standards and approvals II Protection class II Standard EN61326 Security EN61010-1 ATEX ¹⁰ NE 21; NE 43 Specifications Ex EN50014; EN50020; EN50284 @ - Protection Categories 1/2 G or 2G @ - Protection S0 V Short circuit rating Ii 30 V Short circuit rating Ii 30 V Short circuit rating Ii 30					
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Internal capacity Ci negligible	Ambient temperature				
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1) homologation certificate PTB 07 ATEX 2007 X





Target applications with Type 8185

Foodstuffs and animal feed

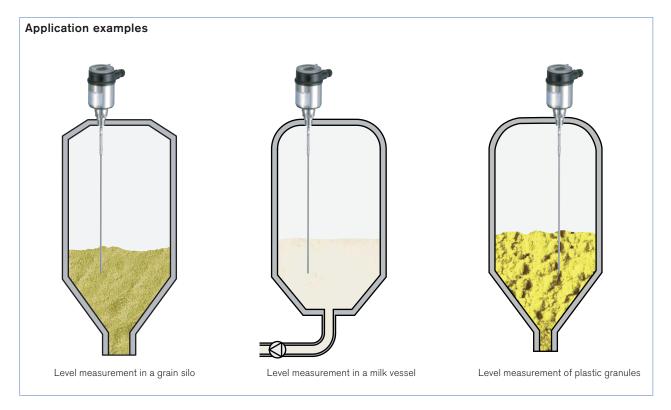
Products such as beer, milk, wine, cereals, sugar, flour, coffee, cornflakes, cacao, instant powder, animal feed - liquids or bulk solids levels must be measured everywhere in the food industry.

The microwave principle works independent of products characteristics such as moisture, intense dust or noise generation, density, temperature, overpressure, foam, dielectric value and the shape of the material cone.

Chemical industries

Many finished products in the chemical industry are produced as powder, granules, pellets, solvents.... The different and sometimes fluctuating product characteristics place heavy demands on the level measurement. The measuring result is influenced neither by fluctuating product quality nor by dust generation, density, temperature, overpressure, foam or build-up.

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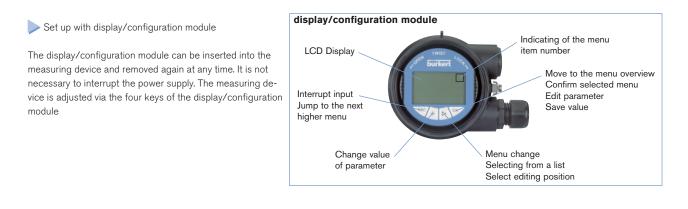
Principle of operation

High frequency microwave pulses are guided along a steel cable or a rod. When they reach the product surface, the microwave pulses are reflected and received by the processing electronics. The running time is valuated by the instrument and outputted as distance. Time consuming adjustment with medium is not necessary. The instruments are preset to the ordered probe length. The shortenable cable and rod versions can be adapted individually to the local requirements.

The measuring device can be adjusted with:

- the display/configuration module
- the suitable Bürkert DTM in conjunction with adjustment software according to the FDT/DTM standard, e.g. PACTware™ and PC.
- a HART handheld

The entered parameters are generally saved in the measuring device Type 8185. Optionally, parameters may also be uploaded and downloaded with the display/configuration module or in PACTware™



Set up with PACTware™/DTM and HART communication

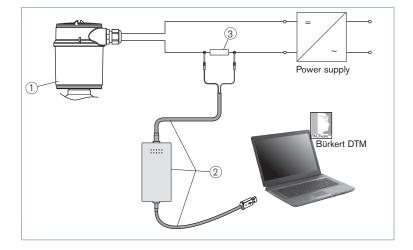
The measuring device can be operated tanks to PACTware[™], via the HART signal. An interface adapter is necessary for the adjustment with PACTware[™]. For the setup of the Type 8185, DTM-Collection in the actual version must be used. The basic version of this DTM Collection incl. PACTware[™] is available as a free-of-charge download from the Internet at www.burkert.com.

Connecting the PC via HART

- 1. Measuring device 8185
- 2. HART-USB Modem
- 3. Resistance 250 Ohm

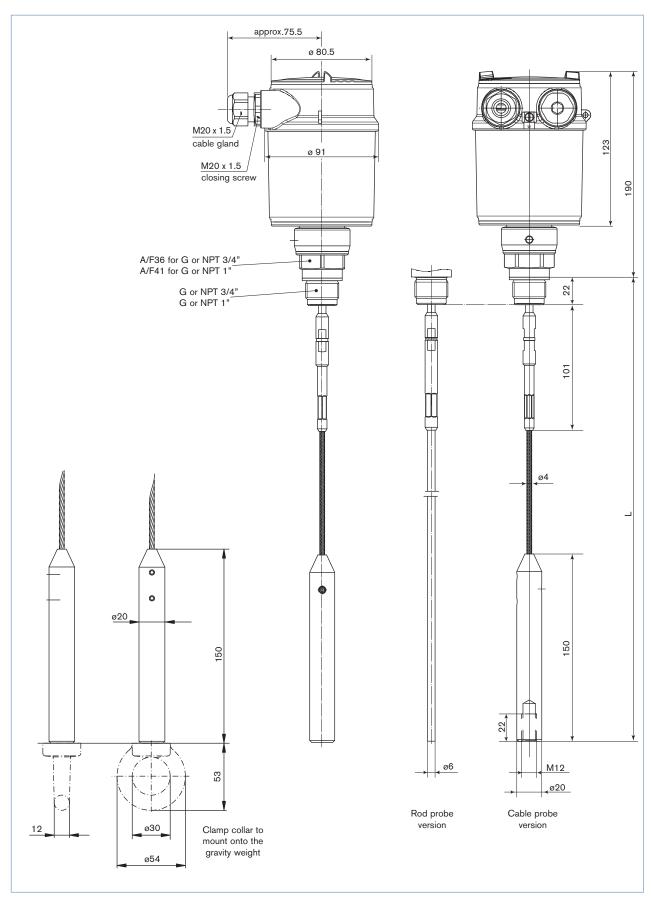
Necessary components:

- Measuring device 8185
- PC with PACTware[™] and suitable Bürkert DTM
- HART-USB Modem
- Resistance approx. 250 Ohm
- Power supply unit



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Dimensions [mm]



8185

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Ordering chart for compact measuring device Type 8185

Specifications	Voltage supply	Output	Probe	Length	Electrical connection	Item no. with display/ configuration module	ltem no. without display/ configuration module
G 3/4" mounting thread	14 - 36 V DC	4 - 20 mA/	Rod	1 m	Cable gland M20 x 1.5	558 229	559 247
		HART (2 wires)		2 m	Cable gland M20 x 1.5	558 233	559 251
		(2 11103)	Cable	5 m	Cable gland M20 x 1.5	558 241	559 259
				10 m	Cable gland M20 x 1.5	558 245	559 263
G 1" mounting thread	14 - 36 V DC	4 - 20 mA/	Rod	1 m	Cable gland M20 x 1.5	558 231	559 249
		HART (2 wires)		2 m	Cable gland M20 x 1.5	558 235	559 253
		(2 wires)	Cable	5 m	Cable gland M20 x 1.5	558 243	559 261
				10 m	Cable gland M20 x 1.5	558 247	559 265
NPT 3/4" mounting thread	14 - 36 V DC	4 - 20 mA/	Rod	1 m	Cable gland M20 x 1.5	558 230	559 248
		HART (2 wires)		2 m	Cable gland M20 x 1.5	558 234	559 252
			Cable	5 m	Cable gland M20 x 1.5	558 242	559 260
				10 m	Cable gland M20 x 1.5	558 246	559 264
NPT 1" mounting thread	14 - 36 V DC	4 - 20 mA/ HART (2 wires)	Rod	1 m	Cable gland M20 x 1.5	558 232	559 250
				2 m	Cable gland M20 x 1.5	558 236	559 254
			Cable	5 m	Cable gland M20 x 1.5	558 244	559 262
				10 m	Cable gland M20 x 1.5	558 248	559 266
Ex version -	14 - 30 V DC	4 - 20 mA/ HART (2 wires)	Rod	1 m	Cable gland M20 x 1.5	558 237	559 255
ATEX approval				2 m	Cable gland M20 x 1.5	558 239	559 257
G 3/4" mounting thread			Cable	5 m	Cable gland M20 x 1.5	558 249	559 267
				10 m	Cable gland M20 x 1.5	558 251	559 269
Ex version -	14 - 30 V DC	4 - 20 mA/	Rod	1 m	Cable gland M20 x 1.5	558 238	559 256
ATEX approval		HART (2 wires)		2 m	Cable gland M20 x 1.5	558 240	559 258
G 1" mounting thread			Cable	5 m	Cable gland M20 x 1.5	558 250	559 268
				10 m	Cable gland M20 x 1.5	558 252	559 270



Further versions on request

Port connection Thread G or NPT 1"1/2 Flange DN25, DN40, DN50, DN80, DN100, DN150 Flange 1", 1"1/2, 2", 3", 4", 6"

Ordering chart - accessories for measuring device Type 8185 (has to be ordered separately)

Specifica- tions	ltem no.
Set with 2 reductions M20 x 1.5/NPT1/2" + 2 neoprene flat seals for cable gland + 2 screw-plugs M20 x 1.5	551 782
Spare cable with gravity weight - 10 m	560 769
Spare rod - 2 m	on request
Clamp collar	559 765
Hart-USB Modem	560 177
Set with a display/configuration module, a transparent cover and a seal ring	559 279
Set with a transparent cover and a seal ring	561 006



Note

Guided microwave level measuring device Type 8185 - request for quotation

Please fill in and send to your local Bürkert Sales Centre* with your inquiry or order.

		in the printing
Company:	Contact person:	before printing out the form.
Customer No.:	Department:	000
Address:	Tel. / Fax.:	
Postcode / Town:	E-mail:	

Guided microwave level measuring device 8185						
Quantity:			Desired delivery date:			
Process fitting con	nection:					
External thread	G 3/4"	G 1"	G 1"1/2			
	NPT 3/4"	NPT 1"	NPT 1"1/2			
Flange	DN25	DN40	DN50			
	DN80	DN100	DN150			
	ANSI 1"	ANSI 1"1/2	ANSI 2"			
	ANSI 3"	ANSI 4"	ANSI 6"			
Sensor version:						
Probe	Rod	Cable				
Length	🗌 1 m	2 m	5 m	🗌 10 m		
	Spec. length	Spec. length mm (multiple of 200 mm between 600 and 4000 mm for Rod version - (multiple of 200 mm between 1000 and 32000 mm for cable version)				
display/configurati	display/configuration module					
ATEX approval		Yes	No			

Interconnection possibilities with other Bürkert devices

