



You can count on Lutz already for a long time.

Precise work counts more than ever in laboratories as well as in production and fluid handling. Flow measurement therefore has to be rational, economical and - above all - practical, in mobile use as well as in stationary operation.

The precise recording of the liquid discharge ensures the quality of the work processes and the economic use of the operating resources.

You have been able to rely on the proven Lutz flow meters for almost 20 years - the new generation of meters will also inspire you.

- Turbine wheel meter TR
- Swash plate meter TS
- Oval gear meter HDO

Watch product video









Selection Criteria

Selection criteria

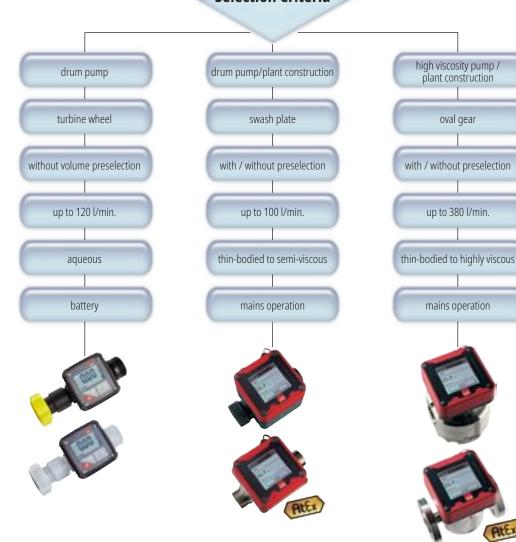
Measuring principle

Type of application

Measuring range

Liquid

Power supply



TR series

- Can be combined with all drum and container pumps
- ✓ Wide measuring range
- ✓ Also for small volume flows
- Partial volume resettable

(see page 4-5)

TS series

- ✓ Touch screen display
- ✓ Multilingual menu guidance
- Simple operation in plain text
- ✓ "Plug & Play" module concept

(see page 6-15)

HDO series

- ✓ Touch screen display
- Multilingual menu guidance
- Simple operation in plain text
- ✓ "Plug & Play" module concept
- For high flow rates, temperatures and pressures

(see page 16-23)

Lutz flow meter programme

The value for money Lutz flow meter TR

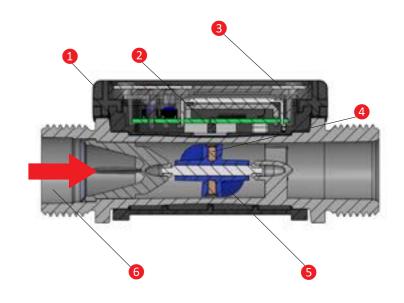


Easy to operate

Easy to operate, compact and quick to install on all drum and container pumps: The new Lutz flow meter TR3 in PP or PVDF. A flow meter, easy to handle, that you can "count on" in any situation. The symmetrical measuring chamber can be used for all flow directions and measures low-viscosity, non-flammable substances precisely, quickly and above all efficiently.

With drive to the measurement result

The new TR3 with illuminated, digital display according to the measuring principle of a turbine wheel meter has a two-line LED display showing the current output and the total memory or the 8 partial quantity memories. The display can be mounted adapted to the viewing angle or moved when mounted. The measuring accuracy is better than ± 1%, the nominal operating pressure is 10 bar.



Benefits:

- Flexible assembly
- Variable display alignment
- Larger volume flow range
- Easy battery change

- 1 Upper part of the housing (PC) with shock protection (NBR)
- 2 Circuit board
- Keyboard foil
- 4 Magnet
- **5** Axial turbine (PP or PVDF)
- **6** Measuring chamber (PP or PVDF)

The economic liquid volume meter

You have the free choice





Lutz offers you complete systems for laboratory and pilot plant. The pump set Lutz B2 Battery and Vario can optionally be supplemented with the flow meter TR3-PP (order no. 0213-051).



Туре		TR3-PP		TR3-PVDF		
Material	Cover Housing Keyboard Shock protection	POM PES F		PC POM PES NBR		
Material (in contact with liquid)	Measuring chamber Rotor Shaft Bearing ball Seal	PP Hastelloy C-22 PTFE		PVDF PVDF Hastelloy C-22 PTFE PTFE		
Measuring range		5-120 l/min.		5-120 l/min.	5-120 l/min.	
Range of viscosity		0,8-40 mPas		0,8-40 mPas		
max. operating pressu	re	10 bar		10 bar		
Measuring accuracy un	ncalibrated	± 2%*		± 2%*		
Measuring accuracy (c	alibrated)	± 1%*		± 1%*		
Repeat accuracy		± 0.5%		± 0.5%		
Connection thread		G 1	G 1 1/4	G 1	G 1 1/4	
Protection class		IP65		IP65		
Battery		Two 1.5 V batteries (AAA) replaceable		Two 1.5 V batteries (AAA) replaceable		
Temperature range		-10 to +50 °C		-10 to +50 °C		
Dimensions		85 x 123 x 52 mm		85 x 123 x 52 mm		
Weight		0.22 kg		0.24 kg		
Order no. Mounting of	Order no. Mounting on B1/B2 Battery/B2 Vario		_	0213-061	_	
Order no, Mounting of	n drum pump	_	0213-050	_	0213-060	
Order no, Mounting of	n nozzle	_	0213-052	_	0213-062	

^{*} Testassembly: Medium water / diesel, flow in preferred direction, settling section 0.2 m upstream and downstream of flow meter

Lutz flow meter programme

Series TS: Swash plate principle



Product features

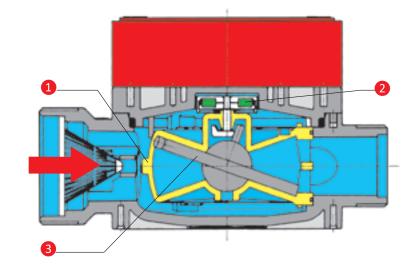
The flow meters in plastic and metal design work according to the swash plate principle. They are suitable for pumping neutral, aggressive, flammable and viscous liquids.

- Wide range of applications
- Also in PURE version

Everything under control This is how TS works

The flowing liquid causes a swash plate to rotate around its own axis. A magnet with several poles is set in rotation via a "coupling".

This switches a reed contact through the cover of the housing. The volume of the liquid flowing through results from the number of the detected pulses.



- 1 measuring chamber
- 2 Magnet
- Swash plate



Lutz flow meter programme

The innovative Lutz flow meter TS

There are a lot of measuring devices for fluids. But the advantages of the new Lutz flow meters stand out from them all. Therefore, let yourself be convinced by the outstanding precision, flexibility and user-friendliness.

Discover the advantages of innovative Lutz technology:

Watch product video





Easy to use at a high level.

The first flow meter with **touchscreen display** and backlight convinces with its simple, demand-oriented display and operability, the **multilingual interface** and the compact design.

The user guidance with clear text instructions, system messages and assistance texts as well as safety and monitoring functions almost exclude errors. It can also be operated manually or by external control.

■ In Touch with the Future.









Simply convenient: Flow measurement with volume preselection.

The relay module, an intelligent "building block" of the Lutz meter innovation helps you to automatise work processes and thus make them more efficient.

The desired quantity can simply be preselected and started by pressing a key. Whether for mobile operation with a drum pump, or for controlling complex systems: The convenient volume preselection makes your processes easier and safer. The pump, the system and/or the solenoid valve are switched on and off by the integrated electronics.

■ Precise, safe and economical.



Combine as required. Easy to assemble.

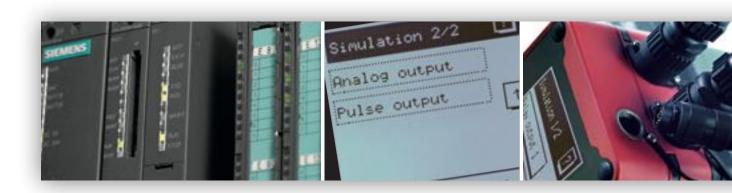
The Lutz flow meter can be integrated into your system very quickly and without wiring work thanks to confusion-proof plug-in connections. Individual modules such as the basic flow meter, the operating unit or the relay module can be assembled, combined and installed with the new connection system as in a modular system.

Flexible in use The variety of possibilities:

- Food, luxury food and beverage industry
- Paint and lacquer industry
- Pharmaceuticals and cosmetics
- Plant and apparatus construction
- Chemical industry
- Petrochemistry
- Chemicals and mineral oil trade
- Machine factories & metal processing
- Automotive industry & suppliers
- Electroplating and surface treatment
- **■** Engineering and design offices







The flexible flow meter system you can rely on.



Flow measurement without volume preselection - TS

for non-flammable liquids





Flow meter type VA10 in PURE Version suitable for use in the food and cosmetics industry as well as in the pharmaceutics.

Technical data	Type ST10	Type SL10	Type VA10
Field of application	Neutral media, such as water, mineral oils	Aggressive liquids such as acids and alkalis	Many acids, alkalis and other liquids
Flow rate	min. 10 – max. 100** l/min.	min. 10 – max. 100** l/min.	min. 10 – max. 100 l/min.
Temperature	60 °C	60 °C	80 °C
Viscosity	2,000 mPas	2,000 mPas	5,000 mPas
Operating pressure	4 bar	4 bar	10 bar
Accuracy	± 1% standard < 1% with adaptation to the operating conditions	± 1% standard < 1% with adaptation to the operating conditions	± 1%
Inlet port	G 2 male thread suitable for connection piece with wing nut	G 2 male thread suitable for connection piece with wing nut	G 1 1/4 male thread
Outlet port	G 1 1/4 male thread	G 1 1/4 male thread	G 1 1/4 male thread
LCD display	Touch-Screen 63x63 r	nm, 128x128 pixels, display sub-total and	total volume can be reset
Menu language		DE, GB, ES, FR, IT, NL, PT, RU	
Materials:			
Housing	PPO	PPO	Stainless steel (1.4581/ 1.4571)*
Measuring chamber	PPO/PPS	PPO/PPS	Stainless steel (1.4581/1.4571) ETFE / PTFE
Seals	FPM	FPM	FEP
Magnet	BaFe / PA / stainless steel 1.4401	PPS encapsulated	PTFE encapsulated
Protection class	IP55	IP55	IP55
Weight	1.1 kg	1.1 kg	3.7 kg
Order No.	0231-000	0231-010	0231-049

^{*} Special materials on request Information on the chemical resistance of the different flow meter variants can be found in our resistance table.
** Short-term 120 l/min.

Recommended accessories: Power supply unit NG10***		
Voltage	220-230 V	
Frequency	50-60 Hz	
Order No.	0230-230	

^{***} Limited battery operation possible without power supply unit.

Flow measurement without volume preselection - TS

for easily inflammable liquids









Flow meter type VA10 in PURE Version suitable for use in the food and cosmetics industry as well as in the pharmaceutics.

Technical data	Type LM10 (Ex)	Type UN10 (Ex)	Type VA10 (Ex)
Field of application	Solvents and many other highly flammable liquids, oils and neutral liquids.	Solvents and highly flammable liquids, most of acids and alkalis	Almost all solvents and highly flammable liquids. Many acids, alkalis and other liquids.
Flow rate	min. 10 – max. 100** l/min.	min. 10 – max. 100** l/min.	min. 10 – max. 100 l/min.
Temperature	60 °C	60 °C	60 °C
Viscosity	2,000 mPas	2,000 mPas	5,000 mPas
Operating pressure	4 bar	4 bar	10 bar
Accuracy	± 1% standard < 1% with adaptation to the operating conditions	± 1% standard < 1% with adaptation to the operating conditions	± 1%
Inlet port	G 2 male thread suitable for connection piece with wing nut	G 2 male thread suitable for connection piece with wing nut	G 1 1/4 male thread
Outlet port	G 1 1/4 male thread	G 1 1/4 male thread	G 1 1/4 male thread
LCD display	Touch-Screen 63x63 m	m, 128x128 pixels, display sub-total and t	otal volume can be reset
Menu language		DE, GB, ES, FR, IT, NL, PT, RU	
Materials: Housing Measuring chamber Seals Magnet	PPS LCP FEP BaFe / MS / stainless steel 1.4401	PPS LCP FEP PPS encapsulated	Stainless steel (1.4581/1.4571)* Stainless steel (1.4581/1.4571) ETFE/ PTFE FEP PTFE encapsulated
Marking: Operating unit Basic flow meter	II 2G Ex ib IIB T4 Gb*** II 2G T4 Gb	II 2G Ex ib IIB T4 Gb*** II 2G T4 Gb	II 2G Ex ib IIB T4 Gb*** II 2G T4 Gb
Protection class	IP55	IP55	IP55
Weight	1.1 kg	1.1 kg	3.7 kg
Order No.	0231-020	0231-030	0231-040

^{*}Special materials on request Information on the chemical resistance of the different flow meter variants can be found in our resistance table. ** Short-term 120 I/min. *** Type of protection II 2G Ex ib IIC T4 Gb on request

Recommended accessories: Power supply unit NG10****		
Voltage	220-230 V	
Frequency	50-60 Hz	
Order No.	0230-230	

**** Limited battery operation possible without power supply unit, installation of power supply unit outside hazardous area necessary

Flow measurement with volume preselection - TS

for non-flammable liquids





Flow meter type VA10 in PURE Version suitable for use in the food and cosmetics industry as well as in the pharmaceutics.

Technical data	Type ST10/RM10 230 V	Type SL10/RM10 230 V	Type VA10/RM10 230 V		
Field of application	Neutral media, such as water, mineral oils	Aggressive liquids such as acids and alkalis	Many acids, alkalis and other liquids		
Flow rate	min. 10 – max. 100** l/min.	min. 10 – max. 100** l/min.	min. 10 – max. 100 l/min.		
Temperature	60 °C	60 °C	80 °C		
Viscosity	2,000 mPas	2,000 mPas	5,000 mPas		
Operating pressure	4 bar	4 bar	10 bar		
Accuracy	± 1% standard < 1% with adaptation to the operating conditions	± 1% standard < 1% with adaptation to the operating conditions	± 1%		
Inlet port	G 2 male thread suitable for connection piece with wing nut	G 2 male thread suitable for connection piece with wing nut	G 1 1/4 male thread		
Outlet port	G 1 1/4 male thread	G 1 1/4 male thread	G 1 1/4 male thread		
LCD display	Touch-Screen 63x63 m	nm, 128x128 pixels, display sub-total a	nd total volume can be reset		
Menu language		DE, GB, ES, FR, IT, NL, PT, RU			
Materials: Housing Measuring chamber Seals Magnet	PPO PPO/PPS FPM BaFe / PA / Stainless steel 1.4401	PPO PPO/PPS FPM PPS encapsulated	Stainless steel (1.4581/1.4571)* Stainless steel (1.4581/1.4571) ETFE/PTFE FEP PTFE encapsulated		
Protection class	IP55	IP55	IP55		
Weight	1.6 kg	1.6 kg	4.1 kg		
Relay module RM10					
Voltage		220-230 V			
Frequency		50-60 Hz			
Switching outputs		2 switching outputs (potentially bou	ınd)		
Output 1 (Pump)		8 A, cos > 0,7			
Output 2 (Valve)		0.5 A			
Order No.	0231-001	0231-011	0231-041		

^{*} Special materials on request Information on the chemical resistance of the different flow meter variants can be found in our resistance table. ** Short-term 120 I/min.

Flow measurement with volume preselection - TS

for easily inflammable liquids





Flow meter type VA10 in PURE Version suitable for use in the food and cosmetics industry as well as in the pharmaceutics.

Technical data	Type LM10 / Ex-RM10mK	Type UN10 / Ex-RM10mK	Type VA10 / Ex-RM10mK			
Field of application	Solvents and many other highly flammable liquids, oils and neutral liquids.	nmable liquids, oils and neutral liquids, most of acids and alkalis.				
Flow rate	min. 10 – max. 100** l/min.	nin. 10 – max. 100** l/min. min. 10 – max. 100** l/min. mir				
Temperature	40 °C	40 °C	40 °C			
Viscosity	2,000 mPas	2,000 mPas	5,000 mPas			
Operating pressure	4 bar	4 bar	10 bar			
Accuracy	± 1% standard < 1% with adaptation to the operating conditions	± 1% standard < 1% with adaptation to the operating conditions	± 1%			
Inlet port	G 2 male thread suitable for connection piece with wing nut	G 2 male thread suitable for connection piece with wing nut	G 1 1/4 male thread			
Outlet port	G 1 1/4 male thread	G 1 1/4 male thread	G 1 1/4 male thread			
LCD display	Touch-Screen 63x63 mr	m, 128x128 pixels, display sub-total ar	nd total volume can be reset			
Menu language		DE, GB, ES, FR, IT, NL, PT, RU				
Materials: Housing Measuring chamber Seals Magnet	PPS LCP FEP BaFe / MS / stainless steel 1.4401	PPS PPS LCP LCP FEP FEP				
Marking: Operating unit Basic flow meter	II 2G Ex ib IIB T4 Gb*** II 2G T4 Gb	II 2G Ex ib IIB T4 Gb*** II 2G T4 Gb	II 2G Ex ib IIB T4 Gb*** II 2G T4 Gb			
Protection class	IP55	IP55	IP55			
Weight	4.4 kg	4.4 kg	6.7 kg			
Relay module Ex-RM10m	ıK					
Voltage		220-230 V				
Frequency		50-60 Hz				
Switching outputs		2 switching outputs (potentially bound)				
Output 1 (Pump)		5 A, cos > 0,7				
Output 2 (Valve)		0.315 A				
Marking		II 2G Ex db eb mb [ib] IIC T4 Gb				
Order No.	0231-023	0231-023 0231-033 0231-043				

^{*} Special materials on request Information on the chemical resistance of the different flow meter variants can be found in our resistance table.
** Short-term 120 I/min.

^{***} Type of protection II 2G Ex ib IIC T4 Gb on request

Lutz flow meter programme

Series HDO: Oval gear principle





Product features

The flow meters in plastic and metal design work according to the oval gear principle. They are suitable for pumping thin-bodied to highly viscous liquids.

- For high flow rates, temperatures and pressures
- Few construction and wear parts
- Low pressure losses in the system





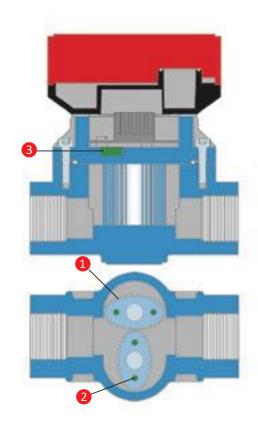




How the HDO works

Two interlocked oval gears, offset by 90° in the meter housing, are set in rotation by the flowing liquid. A defined volume of liquid is transported "in portions" through the two oval wheels. Magnets placed on the measuring wheels are also set in rotation.

A reed contact mounted outside the measuring chamber records the magnetic pulses generated. The volume of the liquid flowing through is determined by the number of pulses detected.



- 1 Oval gears
- 2 Permanent magnets
- Reed contact

Lutz flow meter HDO 080 with pulse output

for very small flow rates

- ✓ Metal housing
- ✓ for very small flow rates up to 8.3 l/min.
- compact basic flow meter with 0.3 m connection cable and plug for connection to external operating unit
- for neutral liquids, many acids and alkalis, petroleum products, highly flammable hydrocarbons, solvents, paints and lacquers, etc.
- ✓ with threaded connection



Technical data	Type HDO 080 SS/SS
Measuring range: below 5 mPas above 5 mPas	0.44 l/min up to 8.3 l/min 0.25 l/min up to 8.3 l/min
Temperature	max. 80 °C
Viscosity max.	1,000 mPas
Operating pressure max.	16 bar
Measuring accuracy	below 5 mPas ± 2,5% of measured value above 5mPas ± 1% of measured value
Reproducibility	± 0.03%
Nominal width	DN 8
Connections: Thread / flange	G 1/4 IT
LCD display	Basic flow meter without operating unit (Suitable operating unit) BE10/BE10 Ex see accessories)
Materials: Housing Measuring wheels Shaft Sealing	Stainless steel (1.4571) Stainless steel (1.4571) Stainless steel (1.4571) FPM (alt. FFPM, EPDM)*
Weight	0.7 kg
Marking: Basic flow meter	II 2G Ex h IIB T4 Gb
Order No.	Thread
up to 1000 mPas	0230-600

Optiona

^{*} Additional price seal FFPM order no. 0230-316 Additional price seal EPDM order no. 0230-322

for non-flammable and easily flammable liquids

- ✓ Metal housing
- ✓ For small flow rates up to 30 l/min.
- Non explosion-proof version:
 for neutral liquids, many acids and alkalis, mineral oil
 products, paints and lacquers, etc.
- **Ex version:** for flammable mineral oil products, highly flammable hydrocarbons and other chemicals in explosive environments.
- ✓ with threaded connection



Technical data	Type HDO 120 Alu/LCP	Type HDO 120 SS/SS	
Measuring range:			
below 5 mPas	2 l/min up to 25 l/min	2 I/min up to 25 I/min	
above 5 mPas	1 l/min up to 30 l/min	1 l/min up to 30 l/min	
Temperature	max. 80 °C (60 °C**)	max. 120 °C (60 °C**)	
Viscosity max.	1,000 mPas	1,000 mPas	
Operating pressure max.	16 bar	16 bar	
Measuring accuracy	below 5mPas ± 2% of measured quantity above 5mPas ± 0.5% of measured quantity	below 5mPas ± 2% of measured value above 5mPas ± 0,5% of measured value	
Reproducibility	± 0.03%	± 0.03%	
Nominal width	DN 12	DN 12	
Connections:			
Thread / flange	G 1/2 IT	G 1/2 IT	
LCD display	Touch-Screen 63x63 mm, 128x128	3 pixels, display sub-total and total volume can be reset	
Menu language	DE,	GB, ES, FR, IT, NL, PT, RU	
Materials:			
Housing	Aluminium	Stainless steel (1.4404)	
Measuring wheels	LCP	Stainless steel (1.4404)	
Shaft	Stainless steel (1.4404)	Stainless steel (1.4404)	
Sealing	FPM (alt. FFPM, EPDM)*	FPM (alt. FFPM, EPDM)*	
Protection class	IP55	IP55	
Weight	2.1 kg	4.5 kg	
Order No.	Thread	Thread	
up to 1000 mPas	0231-101	0231-100	
Technical data	Type HDO 120 Alu/LCP Ex	Type HDO 120 SS/SS Ex	
Marking:			
Operating unit	II 2G Ex ib IIB T4 Gb***	II 2G Ex ib IIB T4 Gb***	
Basic flow meter	II 2G Ex h IIB T4 Gb	II 2G Ex h IIB T4 Gb	
Order No.	Thread	Thread	
up to 1000 mPas	0231-103	0231-102	
•	•	**in Ex version *** type of protection II 2G Ex ib IIC T4 Gb on request.	
· .	ssories: Power supply unit NG10****	51 I S S S S S S S S S S S S S S S S S S	
/oltage	220-230 V		
Frequency	50-60 Hz		
Order No.	0230-230		

**** Limited battery operation possible without power supply unit, installation of power supply unit outside hazardous area necessary

for non-flammable and easily flammable liquids

- ✓ Metal housing
- ✓ for small and medium-sized flow rates up to 60 l/min.
- Non explosion-proof version:
 for neutral liquids, many acids and alkalis, mineral oil
 products, paints and lacquers, etc.
- Fix version:

 for flammable mineral oil products, highly flammable hydrocarbons and other chemicals in explosive environments.
- ✓ with threaded connection



Technical data	Type HDO 200 Alu/LCP	Type HDO 200 SS/SS
Measuring range:		
below 5 mPas	4.5 l/min up to 53 l/min	4.5 l/min up to 53 l/min
above 5 mPas	2 I/min up to 60 I/min	2 l/min up to 60 l/min
Temperature	max. 80 °C (60 °C**)	max. 120 °C (60 °C**)
Viscosity max.	1,000 mPas	1,000 mPas
Operating pressure max.	16 bar	16 bar
Measuring accuracy	below 5mPas ± 2% of measured quantity	below 5mPas ± 2% of measured quantity
	above 5mPas ± 0.5% of measured quantity	above 5mPas ± 0.5% of measured quantity
Reproducibility	± 0.03%	± 0.03%
Nominal width	DN 20	DN 20
Connections:		
Thread / flange	G 3/4 IT	G 3/4 IT
LCD display	Touch-Screen 63x63 mm, 128x128 pixels, o	display sub-total and total volume can be reset
Menu language	DE, GB, ES, F	R, IT, NL, PT, RU
Materials:		
Housing	Aluminium	Stainless steel (1.4404)
Measuring wheels	LCP	Stainless steel (1.4404)
Shaft	Stainless steel (1.4404)	Stainless steel (1.4404)
Sealing	FPM (alt. FFPM, EPDM)*	FPM (alt. FFPM, EPDM)*
Protection class	IP55	IP55
Weight	2.2 kg	4.8 kg
Order No.	Thread	Thread
up to 1000 mPas	0231-105	0231-104
Technical data	Type HDO 200 Alu/LCP Ex	Type HDO 200 SS/SS Ex
Marking:		
Operating unit	II 2G Ex ib IIB T4 Gb***	II 2G Ex ib IIB T4 Gb***
Basic flow meter	II 2G Ex h IIB T4 Gb	II 2G Ex h IIB T4 Gb
Order No.	Thread	Thread
up to 1000 mPas	0231-107	0231-106

Optional: *Additional price seal FFPM order no. 0230-315, additional price seal EPDM order no. 0230-321 **in Ex version *** type of protection II 2G Ex ib IIC T4 Gb on request.

Recommended accessories: Power supply unit NG10****		
Voltage	220-230 V	
Frequency	50-60 Hz	
Order No.	0230-230	

^{****} Limited battery operation possible without power supply unit, installation of power supply unit outside hazardous area necessary

for non-flammable and easily flammable liquids

- ✓ Housing made of plastic or metal
- for small and medium-sized flow rates up to 170 l/min.
- ✓ **Non explosion-proof version:**For neutral liquids, many acids and alkalis, mineral oil products, paints and lacquers, etc.
- for flammable mineral oil products, highly flammable hydrocarbons and other chemicals explosive environments.
- ✓ with threaded or flanged connection



Technical data	Type HDO 250 PVDF/PPS	Type HDO 2	250 Alu/PPS	Type HDO 2	250 SS/PPS	Type HDO	250 SS/SS	
Measuring range: below 5 mPas	6 l/min up to 120 l/min	9.5 l/min up to	n 150 l/min	9.5 l/min up t	o 150 l/min	9.5 l/min up	to 150 l/min	
above 5 mPas	9.5 l/min up to 120 l/min	·		6 l/min up to 170 l/min		6 l/min up to 170 l/min		
Temperature	max. 60 °C	max. 80 °C (60		max. 80 °C (60 °C**)			max. 120 °C (60 °C**)	
Viscosity max.	1,000 mPas	500,000 mPas 5		500,000 mPas	500,000 mPas		S	
Operating pressure max.	16 bar	16 bar		16 bar		16 bar		
Measuring accuracy	below 5mPas \pm 2.5% of measured quantity above 5mPas \pm 1.5% of measured quantity				below 5mPas ± 2% of measured quantity		of measured quantity % of measured quantity	
Reproducibility	0.03%	0.03%		0.03%		0.03%		
Nominal width	DN 25	DN 25		DN 25		DN 25		
Connections: Thread / flange	G 1 IT	G 1 IT	PN 16	G 1 IT	PN 16	G 1 IT	PN 16	
LCD display	Touch-Screen	Touch-Screen 63x63 mm, 128x128 pixels, display sub-total and total volume can be reset						
Menu language			DE, GB, ES, FF	R, IT, NL, PT, RU				
Materials: Housing Measuring wheels Shaft Sealing	PVDF PPS Hastelloy C (2.4819) FPM (alt. FFPM, EPDM)*	PPS Stainless steel (1.4404)		Stainless steel (1.4404) PPS Stainless steel (1.4404) FPM (alt. FFPM, EPDM)*		Stainless steel (1.4404) Stainless steel (1.4401) Stainless steel (1.4404) FPM (alt. FFPM, EPDM)*		
Protection class	IP55	IP55		IP55		IP55		
Weight	1.3 kg	2.2 kg	3.0 kg	4.7 kg	5.9 kg	4.8 kg	6.0 kg	
Order No.	Thread	Thread	Flange	Thread	Flange	Thread	Flange	
up to 1000 mPas	0231-190	0231-209	0231-210	0231-205	0231-206	0231-201	0231-202	
up to 500000 mPas	_	0231-211	0231-212	0231-207	0231-208	0231-203	0231-204	
Technical data		Type HDO 25	0 Alu/PPS Ex	Type HDO 25	O SS/PPS Ex	Type HDO 2	50 SS/SS Ex	
Marking: Operating unit Basic flow meter		II 2G Ex ib IIB II 2G Ex h IIB		II 2G Ex ib IIB II 2G Ex h IIB		II 2G Ex ib IIE		
Order No.		Thread	Flange	Thread	Flange	Thread	Flange	
up to 1000 mPas		0231-221	0231-222	0231-217	0231-218	0231-213	0231-214	
up to 500000 mPas		0231-223	0231-224	0231-219	0231-220	0231-215	0231-216	

Optional: * Additional price seal FFPM order no. 0230-312, additional price seal EPDM order no. 0230-318. Drum pump connection for connecting to a drum pump B70 / HD-E see accessories. ** in Ex version *** Type of protection II 2G Ex ib IIC T4 Gb on request.

Recommended accessories: Power supply unit NG10****					
Voltage	V	220-230 V			
Frequency	Hz	50-60 Hz			
Order No.		0230-230			

**** Limited battery operation possible without power supply unit, installation of power supply unit outside hazardous area necessary

for non-flammable and easily flammable liquids

- ✓ Metal housing
- ✓ for medium-sized flow rates up to 246 l/min.
- Non explosion-proof version:
 for neutral liquids, many acids and alkalis, mineral oil
 products, paints and lacquers, etc.
- Fix version:

 for flammable mineral oil products, highly flammable hydrocarbons and other chemicals in explosive environments.
- ✓ with threaded or flanged connection



Technical data	Type HDO 40	00 Alu/PPS	Type HDO 400	SS/PPS	Type HDO 40	0 SS/SS	
Measuring range:							
below 5 mPas	15 l/min up to 2	15 l/min up to 227 l/min		15 l/min up to 227 l/min		15 l/min up to 227 l/min	
above 5 mPas	9.5 l/min up to	246 l/min	9.5 l/min up to 24	6 l/min	9.5 l/min up to 2	246 l/min	
Temperature	max. 80 °C (60 °	°C**)	max. 80 °C (60 °C	**)	max. 120 °C (60) °C**)	
Viscosity max.	500,000 mPas		500,000 mPas		500,000 mPas		
Operating pressure max.	16 bar		16 bar		16 bar		
Measuring accuracy	below 5mPas ± 1%	of measured quantity	below 5mPas ± 1% of	measured quantity	below 5mPas ± 1%	of measured quantity	
	above 5mPas ± 0.5	% of measured quantity	above 5mPas ± 0.5%	of measured quantity		% of measured quantity	
Reproducibility	0.03%		0.03%		0.03%		
Nominal width	DN 40		DN 40		DN 40		
Connections:							
Thread / flange	G 1 1/2 IT	PN 16	G 1 1/2 IT	PN 16	G 1 1/2 IT	PN 16	
LCD display		Touch-Screen 63x63		n, 128x128 pixels, display sub-total and total volume can be reset			
Menu language			DE, GB, ES,	DE, GB, ES, FR, IT, NL, PT, RU			
Materials:							
Housing	Aluminium		·	Stainless steel (1.4404)		Stainless steel (1.4404) Stainless steel (1.4401)	
Measuring wheels	PPS	4.440.40		PPS			
Shaft	Stainless steel (· ·	Stainless steel (1.4404)		Stainless steel (FPM (alt. FFPM,		
Sealing Protection class	FPM (alt. FFPM, IP55	EPDINI)	FPM (alt. FFPM, EPDM)* IP55		IP55	EPUIVI)	
		E E Iva		12.0 kg		12.1 kg	
Weight Order No.	4.5 kg	5.5 kg	10.4 kg	12.0 kg	10.5 kg	12.1 kg	
	Thread	Flange	Thread	Flange	Thread	Flange	
up to 1000 mPas	0231-233	0231-234	0231-229	0231-230	0231-225	0231-226	
up to 500000 mPas	0231-235	0231-236	0231-231	0231-232	0231-227	0231-228	
Technical data	Type HDO 40	0 Alu/PPS Ex	Type HDO 400	SS/PPS Ex	Type HDO 40	0 SS/SS Ex	
Marking:							
Operating unit	II 2G Ex ib IIB T	CMTI	II 2G Ex ib IIB T4 (COMP 1	II 2G Ex ib IIB T	CAN'T L	
Basic flow meter	II 2G Ex h IIB T4	1 GD —	II 2G Ex h IIB T4 G	ıD O	II 2G Ex h IIB T4	Gb	
Order No.	Thread	Flange	Thread	Flange	Thread	Flange	
up to 1000 mPas	0231-245	0231-246	0231-241	0231-242	0231-237	0231-238	
up to 500000 mPas	0231-247	0231-248	0231-243	0231-244	0231-239	0231-240	

Optional: *Additional price seal FFPM order no. 0230-313, additional price seal EPDM order no. 0230-319. Drum pump connection for connecting to a drum pump B70 / HD-E see accessories. **in Ex version *** Type of protection II 2G Ex ib IIC T4 Gb on request.

Recommended accessories: Power supply unit NG10****				
Voltage	220-230 V			
Frequency	50-60 Hz			
Order No.	0230-230			

for non-flammable and easily flammable liquids

- ✓ Metal housing
- ✓ for large flow rates up to 380 l/min.
- Non explosion-proof version:
 for neutral liquids, many acids and alkalis, mineral oil
 products, paints and lacquers, etc.
- **Ex version:**for flammable mineral oil products, highly flammable hydrocarbons and other chemicals in explosive environments.
- ✓ with flange connection



Technical data	Type HDO 500 Alu/PPS	Type HDO 500 SS/PPS	Type HDO 500 SS/SS	
Measuring range:				
below 5 mPas	23 l/min up to 380 l/min	23 l/min up to 380 l/min	23 l/min up to 380 l/min	
above 5 mPas	15 l/min up to 380 l/min	15 l/min up to 380 l/min	15 l/min up to 380 l/min	
Temperature	max. 80 °C (60 °C**)	max. 80 °C (60 °C**)	max. 120 °C (60 °C**)	
Viscosity max.	500,000 mPas	500,000 mPas	500,000 mPas	
Operating pressure max.	16 bar	16 bar	16 bar	
Measuring accuracy	below 5mPas ± 1% of measured quantity above 5mPas ± 0.5% of measured quantity	below 5mPas \pm 1% of measured quantity above 5mPas \pm 0.5% of measured quantity	below 5mPas ± 1% of measured quantity above 5mPas ± 0.5% of measured quantity	
Reproducibility	0.03%	0.03%	0.03%	
Nominal width	DN 50	DN 50	DN 50	
Connections: Flange	PN 16	PN 16	PN 16	
LCD display	Touch-Screen 63x63 i	mm, 128x128 pixels, display sub-total an	d total volume can be reset	
Menu language	DE, GB, ES, FR, IT, NL, PT, RU			
Materials:				
Housing	Aluminium	Stainless steel (1.4404)	Stainless steel (1.4404)	
Measuring wheels	PPS	PPS	Stainless steel (1.4401)	
Shaft	Stainless steel (1.4404)	Stainless steel (1.4404)	Stainless steel (1.4404)	
Sealing	FPM (alt. FFPM, EPDM)*	FPM (alt. FFPM, EPDM)*	FPM (alt. FFPM, EPDM)*	
Protection class	IP55	IP55	IP55	
Weight	6.6 kg	13.6 kg	13.8 kg	
Order No.	Flange	Flange	Flange	
up to 1000 mPas	0231-253	0231-251	0231-249	
up to 500000 mPas	0231-254	0231-252	0231-250	
Technical data	Type HDO 500 Alu/PPS Ex	Type HDO 500 SS/PPS Ex	Type HDO 500 SS/SS Ex	
Marking: Operating unit Basic flow meter	II 2G Ex ib IIB T4 Gb*** II 2G Ex h IIB T4 Gb	II 2G Ex ib IIB T4 Gb*** II 2G Ex h IIB T4 Gb	II 2G Ex ib IIB T4 Gb*** II 2G Ex h IIB T4 Gb	
Order No.	Flange	Flange	Flange	
up to 1000 mPas	0231-259	0231-257	0231-255	
up to 500000 mPas	0231-260	0231-258	0231-256	

Optional: *Additional price seal FFPM order no. 0230-314, additional price seal EPDM order no. 0230-320. **in Ex version *** Type of protection II 2G Ex ib IIC T4 Gb on request.

Recommended accessories: Power supply unit NG10****					
Voltage	220-230 V				
Frequency	50-60 Hz				
Order No. 0230-230					

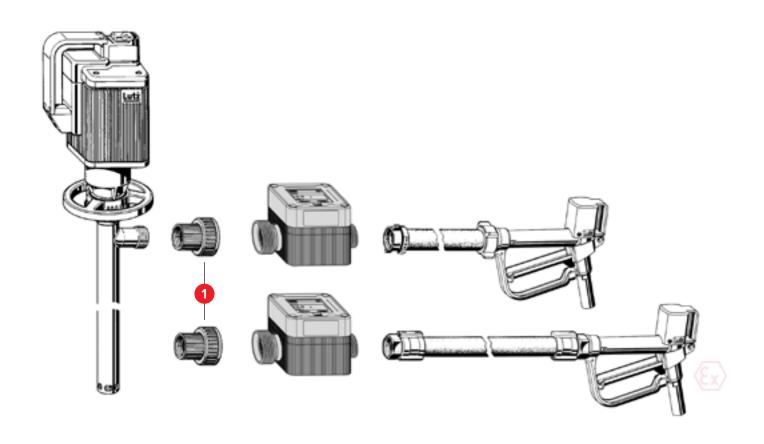
**** Limited battery operation possible without power supply unit, installation of power supply unit outside hazardous area necessary

Accessories programme Lutz flow meters

for mobile and stationary application



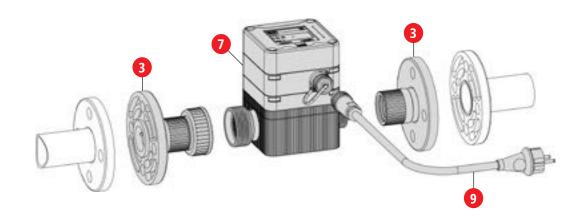
Flow meter TSB without volume preselection



... in threaded design



Flow meter TS without volume preselection

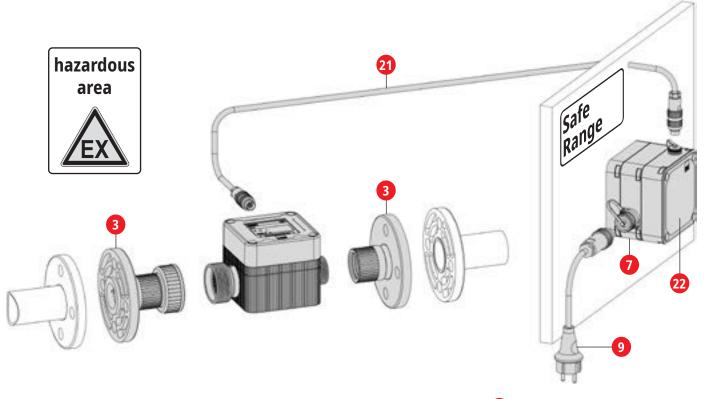


... with power supply unit in plant engineering

3 Flange connection

Power supply NG10

9 Power supply cable



... with power supply unit in plant engineering (Ex)

3 Flange connection

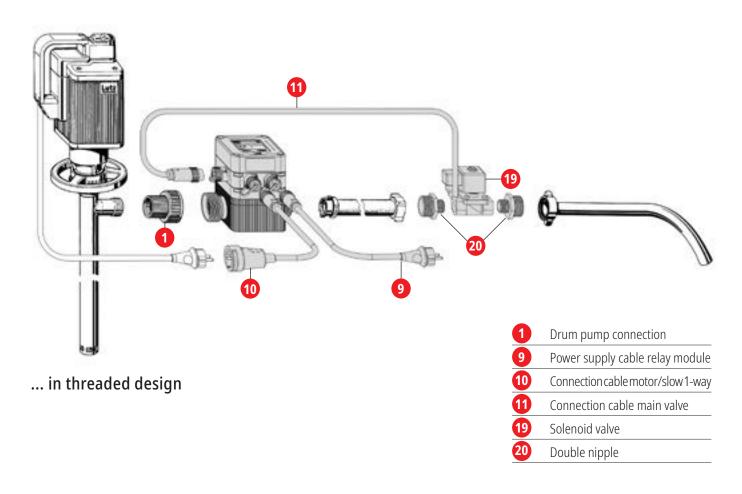
Power supply NG10

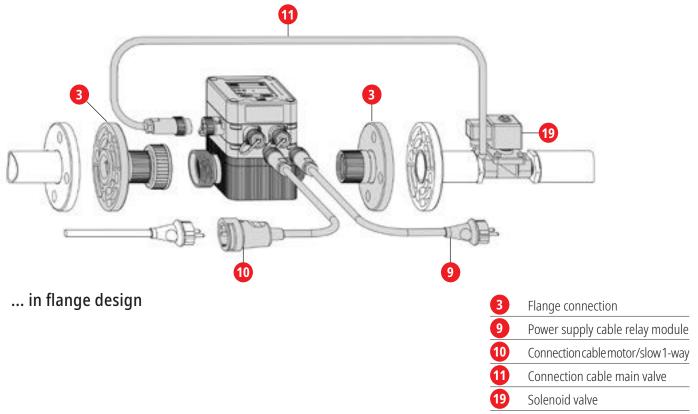
9 Power supply cable

21 Data line

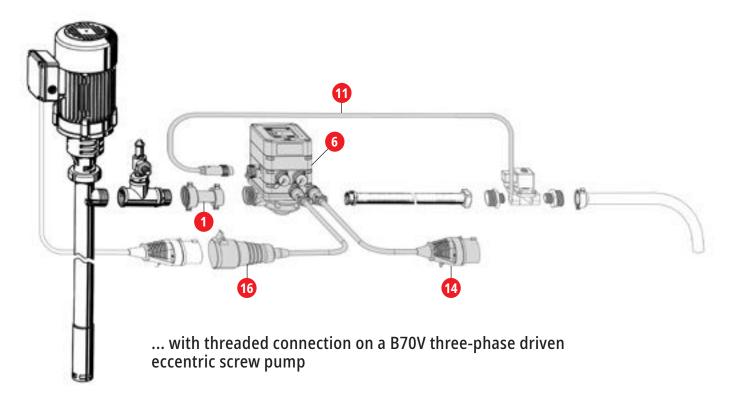
22 Protection cap SH10

Flow measurement with volume preselection



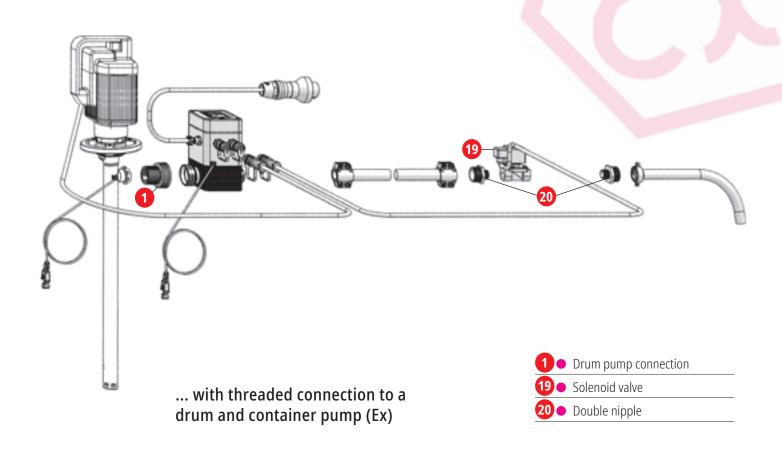


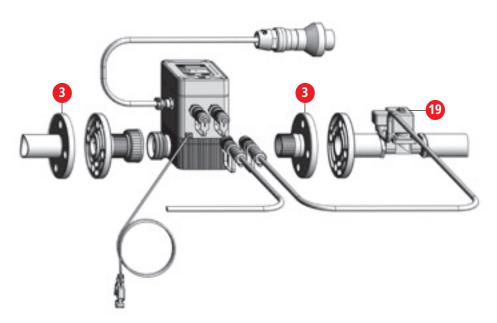
Flow measurement with volume preselection



- 1 Drum pump connection
- 6 Relay module RM30
- 11 Connection cable main valve
- 14 Power supply cable RM30, 400V
- 16 Connection cable motor RM30 400 V

Flow measurement with volume preselection





... with flange connection in plant engineering (Ex)

Flange connection

Solenoid valve

Connection fittings

Product detail	Specification	Order No.
	Drum pump connection connects the flow meter to a drum and container pump. PPO/FPM G 1 1/4 IT for ST10, SL10 PPS/FPM-FEP G 1 1/4 IT for LM10, UN10 Stainless steel/PTFE G 1 1/4 - G 1 1/4 IT for VA10 Stainless steel/PTFE G 1 1/4 - G 1 1/2 IT for VA10	0211-130 0211-132 • 0211-211 • 0211-214 •
	Drum pump connection connects the flow meter to an eccentric screw pump B70V or HD-E PP/PTFE G 1 OT x G 1 1/4 IT Stainless steel/PTFE G 1 OT x G 1 1/4 IT Stainless steel/PTFE G 1 OT x G 1 1/2 IT for HDO250 Stainless steel/PTFE G 1 OT x G 1 1/2 IT	0211-332 0211-330 • 0211-331 •
	2 Double nipple connects the flow meter to the hose line PP G 1 OT x G 1 1/4 OT, for drum pump connection G 1 OT x G 1 1/4 IT Stainless steel G 1 OT x G 1 1/4 OT, for drum pump connection G 1 OT x G 1 1/4 IT Stainless steel G 1 OT x G 1 1/2 OT, for drum pump connection G 1 OT x G 1 1/2 IT *additional spacer ring 0231-545 is required	0373-076* 5000-073* 0211-340*
3	Tlange connection connects the flow meter to the piping system. PPO/FPM DN 32, PN 10 on both sides PPS/FPM-FEP DN 32, PN 10 on both sides for LM10, UN10 Stainless steel DN 25, PN 6, one-sided Stainless steel DN 32, PN 6, one-sided Stainless steel DN 32, PN 10, one-sided for VA10 Stainless steel DN 32, PN 10, one-sided Stainless steel DN 40, PN 10, one-sided for VA10	0211-131 0211-133 • 0208-620 • 0208-621 • 0208-622 • 0208-623 •
	Threaded connection connects the flow meter to screw flanges or threaded screw connections. PPO/FPM G 1 1/4 OT for ST10, SL10 PPS/FPM-FEP G 1 1/4 OT for LM10, UN10	0211-135 0211-136 •
	Check valve prevents the liquid from flowing back in the full hose system. PTFE/FPM for ST10, SL10 PTFE/FPM-FEP for LM10, UN10 Opening pressure: 0.05 bar	0211-140 0211-141 ●

 ${\sf FPM} \ is \ a \ registered \ trademark \ of \ {\sf DuPont} \ {\sf Performance} \ {\sf Elastomers}.$

For volume preselection

Specification Order No. Product detail

6 Relay module RM10

enables a volume preselection with the corresponding connection cables.

220-230 V, 50-60 Hz, II (2) G [Ex ib Gb] IIC, protection class IP55

for ST10, SL10, VA10 HD0080, HD0120, HD0200,

HDO250, HDO400, HDO500 **0230-200**

0230-211

0230-210



5 Relay module Ex-RM10mK (complete version)

enables filling with volume preselection in the hazardous area. Ex plug-in connections according to "mini CLIX®/eXLink-System®" with 5 m connection cable, and 3-pole Ex plug (CEAG) and 2 m equipotential bonding cable.

220-230 V, 50-60 Hz, II 2G Ex eb mb [ib] IIC T4 Gb, protection class IP55

for LM10, UN10, VA10, HD0080Ex, HD0120Ex, HD0200Ex, HD0250Ex,

HDO400Ex, HDO500Ex



5 Relay module Ex-RM10mB (basic version)

enables filling with volume preselection in the hazardous area. Without plug connections, with 2 m equipotential bonding cable, accessories on request.

220-230 V, 50-60 Hz, II 2G Ex eb mb [ib] IIC T4 Gb, protection class IP55

for LM10, UN10, VA10, HDO080Ex, HDO120Ex, HDO200Ex, HDO250Ex, HDO400Ex, HDO500Ex



6 Relay module RM30

enables a volume preselection with the corresponding connection cables. For controlling three-phase motors.

400 V, 1,5 kW, 50 Hz or 230 V, 0,8 kW, 50 Hz, II (2) G [Ex ib Gb] IIC, protection class IP55

for ST10, SL10, VA10 HD0080, HD0120, HD0200,

HDO250, HDO400, HDO500 **0230-220**



Power supply unit NG10 230V

takes over the power supply of the control unit instead of the batteries. Relay modules already include this function.

220-230 V, 50-60 Hz, II (2) G [Ex ib Gb] IIC, protection class IP55

for ST10, SL10, VA10 HD0080, HD0120, HD0200,

HDO250, HDO400, HDO500 **0230-230**



Power supply unit Ex-NG10m 230V

takes over the power supply of the control unit instead of the batteries. Relay modules already include this function.

With 5 m connection cable and 3-pole Ex-plug (CEAG) and 2 m equipotential bonding cable.

220-230 V, 50-60 Hz, II 2G Ex eb mb [ib] IIC T4 Gb, protection class IP55

for LM10, UN10, VA10 HDO120 Ex, HDO200 Ex, HDO250 Ex, HDO400 Ex, HDO500 Ex

0230-240



eXLink-System® is a registered trademark of Cooper Crouse-Hinds GmbH

For volume preselection

Product detail	Specification	Order No.
	Communication module enables communication with other controllers Analogue output (0-20mA, 4-20mA, 0-10V), pulse output, RS485 interface, alarm output, digital input (ext. Start/Stop)	
0	8 Communication module KM10K (complete version) with screwed cable glands, für ST10, SL10, VA10, protection class IP55 HD0080, HD0120, HD0200, HD0250, HD0400, HD0500	0230-101
0	9 Power supply cable relay module 5 m long 230 V, 50 Hz for RM10, NG10	0211-155
	Connection cable motor/slow 1-way 0.5 m long 230 V, 50 Hz for RM10	0211-153
	Connection cable motor/slow 3-way 0.5 m long 230 V, 50 Hz for RM10	0211-154

For volume preselection

	Specification		Order No.	Product deta
10	Connection cable main valve			
	5 m long			
	230 V, 50 Hz	for RM10 und RM30	0211-150	
<u> </u>	Comment of the comment			() · · · · · · · · · · · · · · · · · ·
И	Connection cable slow valve 5 m long			
	230 V, 50 Hz	for RM10	0211-151	() b
	230 1, 30 112	161 NW110	0211 131	
13	Extension cable			
	5 m long			
	230 V, 50 Hz	for RM10	0211-152	
14)	Power supply cable RM30 400 V			
	5 m long			
	400 V, 50 Hz, 5-pole	for RM30	0211-388	
В	Plug-in connector relay module			~*
	for individual wiring			
	Plug for motor/valve connection			
	230 V, 50 Hz, 4-pole 230 V, 50 Hz, "mini CLIX®/eXLink-System®"	for RM10 for Ex-RM10mK	0336-095 0336-108*	
		TOT EX KIVITOTIIK	0330-100	
	Coupling for mains connection 230 V, 50 Hz, 4-pole	for RM10	0336-099	
	230 V, 30 Hz, 1 pole	101 NW10	0330 033	
16	Connection cable motor RM30 400 V			
	0.6 m long			
	400 V, 50 Hz, 5-pole	for RM30	0211-386	1 🐷
17)	Power supply cable RM30 230 V			
	5 m long			
	230 V, 50 Hz	for RM30	0211-387	100
18	Connection cable motor RM30 230 V			
	0.5 m long			
	230 V, 50 Hz	for RM30	0211-385	9

^{*}Special Crimp tool required for the connection eXLink-System® is a registered trademark of the Cooper Crouse-Hinds GmbH

For volume preselection

Product detail	Specification		Order No.
	Solenoid valve brass Seal FPM, connection G 3/4 IT 230 V, 50 Hz	for RM10 and RM30	0211-096
1	Solenoid valve stainless steel Seal FPM, connection G 3/4 IT 230 V, 50 Hz	for RM10 and RM30	0211-097
	Solenoid valve PVC Seal PTFE, connection G 1 1/4 OT, incl. 5 m connection cable 230 V, 50/60 Hz	for RM10 and RM30	0211-399
	Solenoid valve brass, Ex Seal PTFE, connection G 3/4 IT, incl. 5 m connection cable and "mini CLIX®/eXLink®plug" 230 V, 50 Hz, II 2G Ex eb mb IIC T3 Gb Solenoid valve stainless steel, Ex	for Ex-RM10mK	0211-396
	Seal PTFE, connection G 3/4 IT, incl. 5 m connection cable and "mini CLIX®/eXLink®plug" 230 V, 50 Hz, II 2G Ex eb mb IIC T3 Gb	for Ex-RM10mK	0211-395
	G 3/4 OT – G 1 1/4 OT		0211-606
	Double nipple brass G 3/4 OT – G 1 1/4 OT		0204-346
	Double nipple stainless steel G 3/4 OT – G 1 1/4 OT		0204-347

Suitable for pumping flammable and highly inflammable liquids (e.g. ethanol, petrol) or in explosive environments.

Other installation accessories

Specification Order No. Product detail

21 Data line

connects the modules in case of decentralised installation.

14-pole, 5 m long for ST10, SL10, LM10, UN10, VA10,

HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-306** •

14-pole, 10 m long for ST10, SL10, LM10, UN10, VA10,

HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-309** •

Data line SPS

for connecting a basic flow meter with protection cap to a programmable logic controller (PLC).

14-pole, with one free cable end, 5 m long **0230-317** •

Push-button data line

for connecting a push-button to the operating unit/protective cover,

14-pole, with one free cable end, 5 m long **0230-332** •

22 Protective cap SH10 with 1 data socket

protects the modules

for decentralised installation, for ST10, SL10, LM10, UN10, VA10,

protection class IP55 HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-350**

22 Protective cap SH20 with 2 data sockets

protects the modules

for decentralised installation, for ST10, SL10, LM10, UN10, VA10,

protection class IP55 HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-351**

Pulse converter

for signal amplification, must be mounted on the basic flow meter,

if the next module is more than 5 m away.

Pulse converter IW10 with 1 data socket

Protection class IP55 for ST10, SL10, VA10,

HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-352**

23 Pulse converter IW20 with 2 data socket

Protection class IP55 for ST10, SL10, VA10,

HDO080, HDO120, HDO200, HDO250, HDO400, HDO500 **0230-353**

24 Intermediate plate

For wall mounting

or as heat protection plate for ST10, SL10, LM10, UN10, VA10,

HDO080, HDO120, HDO200, HDO250, HDO400, HDO500 **0230-304**

Wall bracket set

additional clamp fixing for ST10, SL10, LM10, UN10, VA10, HD0080, HD0120, HD0200, HD0250, HD0400, HD0500

Installation together with intermediate plate 0230-304. (Intermediate plate not included in wall bracket set)

0230-307

26 Hose bracket for operating unit

for decentralised installation of the modules

on a hose line for ST10, SL10, LM10, UN10, VA10,

HDO080, HDO120, HDO200, HDO250, HDO400, HDO500 **0230-303** •













Product detail	Specification		Order No.
	Operating unit BE10 Protection class IP55	for ST10, SL10, VA10, HD0080, HD0120, HD0200, HD0250, HD0400, HD0500	0230-000
	Operating unit BE10 V with encapsulated electronics, protection class IP55	für ST10, SL10, VA10, HD0080, HD0120, HD0200, HD0250, HD0400, HD0500	0230-001
	Operating unit Ex-BE10B II 2G Ex ib IIB T4 Gb, protection class IP55	for LM10, UN10, VA10, HD0080Ex, HD0120Ex, HD0200Ex, HD0250Ex, HD0400Ex, HD0500Ex	0230-010
	Operating unit Ex-BE10BV with encapsulated electronics II 2G Ex ib IIB T4 Gb, protection class IP55	for LM10, UN10, VA10, HDO080Ex, HDO120Ex, HDO200Ex, HDO250Ex, HDO400Ex, HDO500Ex	0230-011
	Operating unit Ex-BE10C II 2G Ex ib IIC T4 Gb, protection class IP55	for LM10, UN10, VA10, HD0080Ex, HD0120Ex, HD0200Ex, HD0250Ex, HD0400Ex, HD0500Ex	0230-020
	Operating unit Ex-BE10CV with encapsulated electronics II 2G Ex ib IIC T4 Gb, protection class IP55	for LM10, UN10, VA10, HD0080Ex, HD0120Ex, HD0200Ex, HD0250Ex, HD0400Ex, HD0500Ex	0230-021
	Pin facilitates input on the touch so	reen of the control unit	0230-325

Suitable for pumping flammable and highly inflammable liquids (e.g. ethanol, petrol) or in explosive environments.

Basic flow meter for decentralised mounting and external data evaluation

Ifthere are larger distances between the measuring and control points or if the installation locations in the system are difficult to access, the individual modules (basic flow meter, operating unit, relay module, etc.) can be installed separately from each other. The data transmission between the components is established without cumbersome

wiring by means of plug-in connections via a data line and a protective cap/pulse converter.

A communication module is required for data transmission to an external signal processing system (e.g. PLC).

	Specification	Order No.	Product detail
28	Basic flow meter ST10 (FPM) PPO/PPS/BaFe/FPM	0230-500	4 4
	Basic flow meter SL10 (FPM) PPO/PPS/FPM	0230-510	J. Salva
	Basic flow meter LM10 (FPM-FEP) PPS/LCP/BaFe/FPM-FEP II 2G T4 Gb	0230-520	
	Basic flow meter UN10 (FPM-FEP) PPS/LCP/FPM-FEP II 2G T4 Gb	0230-530	
23	Basic flow meter VA10 (FPM-FEP) Stainless steel 1.4571/PTFE/FEP II 2G T4 Gb	0230-540	
28	Basic flow meter HDO II 2G c T4 Gb (SS/Alu)	on request •	

Suitable for pumping flammable and highly inflammable liquids (e.g. ethanol, petrol) or in explosive environments.

Twice the **COMPETENCE**...







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Order-No. 0699-271