



You can count on Lutz.

Precise work counts more than ever in laboratories as well as in production and fluids handling. Flow measurement must therefore be efficient, economical and, above all, practical – in mobile application as well as in stationary operation.

Precise capture of fluid data ensures quality work processes and economical handling of operating resources.

For nearly 20 years, experts have relied on tried-and-true Lutz flow meters – and the new generation of meters will inspire you.

- TR turbine wheel meter
- TS nutating disc meter
- **■** HDO oval gear meter

Scan for product video

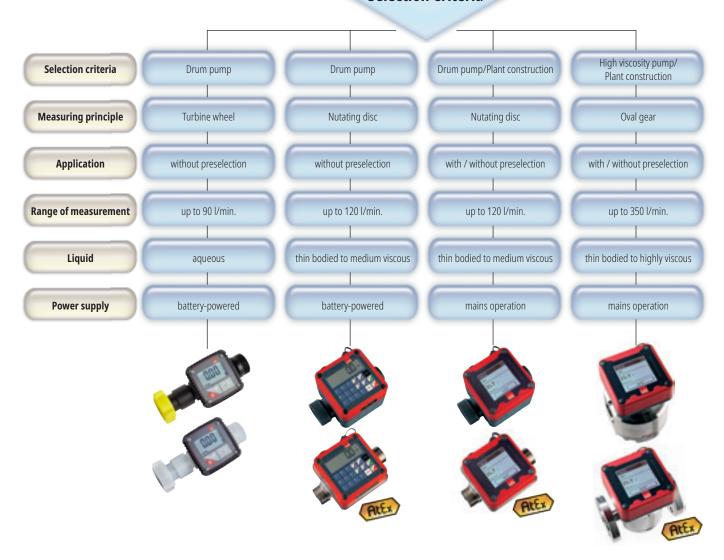








Selection Criteria



TR Series

- Can be combined with all drum and container pumps
- ✓ Wide measuring range
- Also for small volume flow
- ✓ Subtotals can be reset

(see pages 4-5)

TSB Series

- ✓ LCD display with numeric keypad
- ✓ Large 6-digit LCD
- ✓ Ideal for mobile use with a drum pump

(see pages 7-9)

TS Series

- ✓ Touch screen display
- ✓ Multilingual menus
- Simple plain-text operation
- ✓ Plug & play modular design

(see pages 10-19)

HDO Series

- ✓ Touch screen display
- ✓ Multilingual menus
- ✓ Simple plain-text operation
- ✓ Plug & play modular design
- For high flowrates, temperatures and pressures

(see pages 20-27)

Lutz flow meter program

The Reasonable: Lutz flow meter TR

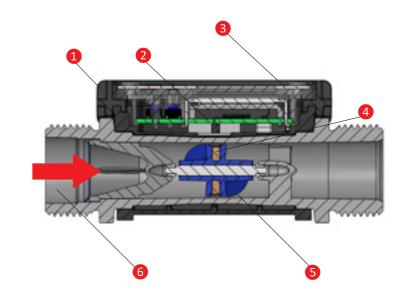


Easy to operate

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 installation
- Variable display alignment
- Larger volume flow range
- Easy change of battery

- 1 Housing top (PC) with shock protector (NBR)
- 2 PCB
- 3 Keypad foil
- 4 Magnet
- **5** Axial flow turbine (PP or PVDF)
- **6** Measuring chamber (PP or PVDF)

The economical liquid volume measurement

The choice is yours





Lutz offers complete pumping systems for the laboratory and research sector. The pump set Lutz B2 Vario can be optionally equipped with a flow meter TR3-PP (Order No. 0213-051).



Туре		TR3-PP		TR3-PVDF	
Material	Housing top Keypad Shock protector	PC PES NBR		PC PES NBR	
Material (in contact with the medium)	Measuring chamber Rotor Shaft Bearing ball Seal	PP Hastelloy C-22 PTFE		PVDF PVDF Hastelloy C-22 PTFE PTFE	
Range of measuremen	nt	5-120 l/min.		5-120 l/min.	
Range of viscosity		0.8-40 mPas		0.8-40 mPas	
max. operating pressu	ıre	10 bar		10 bar	
Measuring accuracy (Measuring accuracy (uncalibrated)		± 2%*		
Measuring accuracy (calibrated)		± 1%*		± 1%*	
Repeating accuracy		± 0,5%		± 0,5%	
Connection		G 1	G 1 1/4	G 1	G 1 1/4
Protection class		IP 65		IP 65	
Battery		Two 1.5 V batteries (AAA) replaceable		Two 1.5 V batteries (AAA) replaceable	
Range of temperature		-10 up to +50 °C		-10 up 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. Assembly at B1/B2 Battery/B2 Vario		0213-051	_	0213-061	_
Order No. Assembly	at drum pump	_	0213-050	_	0213-060
Order No. Assembly		_	0213-052	-	0213-062

^{*} Test assembly: Medium: water/diesel, flow in the preferred direction, settling section of 0.2 m on inlet and outlet of the flow meter

Lutz flow meter program

TS Series: Nutating disc principle



Product Features

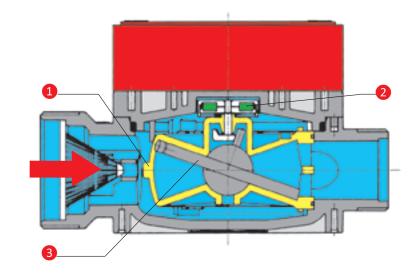
The flow meters in plastic or metal version are nutating disc types and are suitable for the transfer of neutral, aggressive, inflammable and viscous liquids.

- Wide application range
- Optionally in PURE version

Take control: TS operates so

The liquid streaming causes a nutating disc to gyrate about its own axis. A multi-pole solenoid is made to rotate via a driver and switches a reed contact through the housing cover.

The volume flowing through is determined from the number of pulses.



- Measuring chamber
- 2 Magnet
- 3 Nutating disc



Lutz flow meter program

The mobile: Lutz flow meter TSB





Lutz flow meters of series TSB can be used for most different applications. They are suitable for the measurement of thin-bodied up to medium-viscous and inflammable liquids. Due to a battery-powered option, series TSB can be also ideally used for a mobile operation, independent from a mains system.

Benefits:

- Convenient, user-friendly display with numeric keypad
- Large 6-digit LCD
- Flow rate display at a keystroke
- Keyboard lock as protection against inadvertent operation
- Easy calibration
- Explosion protection with Atex certification RL 2014/34/EU

Flow measurement without volume preselection - TSB

for non inflammable liquids



Technical data	Type ST	Type SL	Type VA I
Range of use	Neutral liquids like water, mineral oils	Abrasive liquids like acids and alkalis	Many acids, alkalis and other liquids
Flow volume	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 adjustment to application conditions	± 1% standard < 1%with adjustment to application conditions	± 1%
Inlet port	G 2 outer thread to fit connector with union nut	G 2 outer thread to fit connector with union nut	G 1 1/4 outer thread
Outlet port	G 1 1/4 outer thread	G 1 1/4 outer thread	G 1 1/4 outer thread
LCD display	19 mm character height, 6-digit display, individual and total volume reset possible	19 mm character height, 6-digit display, individual and total volume reset possible	19 mm character height, 6-digit display, individual and total volume reset possible
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 / ETFE FEP ETFE encapsulated
Protection class	IP 54	IP 54	IP 54
Weight	1,0 kg	1,0 kg	3,6 kg
Order No.	0212-101	0212-201	0212-501

^{*} Special materials on request General information to the chemical resistance of the different flow meters you will find in our chemical resistance list. **Short-time 120 I/min.

Flow measurement without volume preselection - TSB

for highly inflammable liquids





Technical data	Type LM	Type UN	Type VA I
Range of use	Solvents and other easily inflammable liquids, oils and neutral liquids.	Solvents and easily inflammable liquids, most of acids and alkalis.	Nearly all solvents and easily inflammable liquids. Many acids, alkalis and other liquids.
Flow volume	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 adjustment to application conditions	± 1% standard < 1%with adjustment to application conditions	± 1%
Inlet port	G 2 outer thread to fit connector with union nut	G 2 outer thread to fit connector with union nut	G 1 1/4 outer thread
Outlet port	G 1 1/4 outer thread	G 1 1/4 outer thread	G 1 1/4 outer thread
LCD display	19 mm character height, 6-digit display, individual and total volume reset possible	19 mm character height, 6-digit display, individual and total volume reset possible	19 mm character height, 6-digit display, individual and total volume reset possible
Materials: Housing Measuring chamber Selas 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
Type of protection: Operating unit Basic flow meter	II 2G Ex ib IIB T4 II 2G T4	II 2G Ex ib IIB T4 II 2G T4	II 2G Ex ib IIB T4 II 2G T4
Protection class	IP 54	IP 54	IP 54
Weight	1,0 kg	1,0 kg	3,6 kg
Order No.	0212-302	0212-402	0212-502

^{*} Special materials on request General information to the chemical resistance of the different flow meters you will find in our chemical resistance list. **Short-time 120 I/min.









There are a lot of measuring devices for fluids.

But the advantages of the new Lutz flow meters stand out from them all.

Their precision, flexibility and user-friendliness will win you over.

Scan for product video







Outstanding user-friendliness.

The first flow meter with a **touch screen display** and backlighting will convince you with its simple requirements-oriented display and usability, multilingual interface and compact design.

With plain-text instructions, system reports and help texts, as well as **monitoring functions**, its user controls practically eliminate errors. Manual operation is just as possible as external control.

■ In Touch with the Future.









Simply easy to use: Flow measurement with volume preselection.

The relay module – an intelligent cornerstone of Lutz meter innovation – helps you automate work processes and organize more efficiently.

The desired volume can simply be preselected and started with the touch of a button. Whether for mobile use with a drum pump or for controlling complex systems: With easy volume preselection, your processes will be simpler and safer. The pump, the system and/or the solenoid valve are turned on and off by the integrated electronics.

Precise, safe and economical.



Combine to your needs. Easy to assemble.

The Lutz flow meter can be connected to your system quickly and with no wiring work, using socket connections that can't be confused. The new connection system is assembled like a modular design, allowing individual modules, such as the basic meter, control unit and relay module, to be combined with each other and installed.









The flexible meter system you can rely on.



Flow measurement without volume preselection - TS

for non inflammable liquids





Flow meters type VA10 in PURE-version are optionally available for the food-, cosmetics and pharmaceutical industry.

Technical data	Type ST10	Type SL10	Type VA10	
Range of use	Neutral liquids like water, mineral oils.	Abrasive liquids like acids and alkalis.	Many acids, alkalis and other liquids.	
Flow volume	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 adjustment to application conditions	± 1% standard < 1% with adjustment to application conditions	± 1%	
Inlet port	G 2 outer thread to fit connector with union nut	G 2 outer thread to fit connector with union nut	G 1 1/4 outer thread	
Outlet port	G 1 1/4 outer thread	G 1 1/4 outer thread	G 1 1/4 outer thread	
LCD display	Touch-Screen 63x63 r	Touch-Screen 63x63 mm, 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 / ETFE	
Seals	FPM	FPM	FEP	
Magnet	BaFe / PA / Stainless steel1.4401	PPS encapsulated	ETFE encapsulated	
Protection class	IP 55	IP 55	IP 55	
Weight	1,1 kg	1,1 kg	3,7 kg	
Order No.	0231-000	0231-010	0231-049	

^{*} Special materials on request General information to the chemical resistance of the different flow meters you will find in our chemical resistance list. **Short-time 120 I/min.

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

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

Flow measurement without volume preselection - TS

for highly inflammable liquids









Flow meters type VA10 in PURE-version are optionally available for the food-, cosmetics and pharmaceutical industry.

Technical data	Type LM10 Ex	Type UN10 Ex	Type VA10 Ex
Range of use	Solvents and other easily inflammable liquids, oils and neutral liquids.	Solvents and easily inflammable liquids, most of acids and alkalis.	Nearly all solvents and easily inflammable liquids. Many acids, alkalis and other liquids.
Flow volume	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 adjustment to application conditions	± 1% standard < 1% with adjustment to application conditions	± 1%
Inlet port	G 2 outer thread to fit connector with union nut	G 2 outer thread to fit connector with union nut	G 1 1/4 outer thread
Outlet port	G 1 1/4 outer thread	G 1 1/4 outer thread	G 1 1/4 outer thread
LCD display	Touch-Screen 63x63 n	nm, 128x128 pixels, Display sub-total and	I total volume can be reset
Menu language		DE, GB, ES, FR, IT, NL, PT, RU	
Materials: Hosuing 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
Type of preotection: Operating unit Basic flow meter	II 2G Ex ib IIB T4*** II 2G T4	II 2G Ex ib IIB T4*** II 2G T4	II 2G Ex ib IIB T4*** II 2G T4
Protection class	IP 55	IP 55	IP 55
Weight	1,1 kg	1,1 kg	3,7 kg
Order No.	0231-020	0231-030	0231-040
* Special materials on request Gene	ral information to the chemical resistance of the different flow mete	ers you will find in our chemical resistance list. **Short-time	2 120 l/min. ***Protection class II 2G Ex ib IIC T4 on request

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

*** Limited battery operation without power supply unit possible.

Flow measurement with volume preselection - TS

for non inflammable liquids





Flow meters type VA10 in PURE-version are optionally available for the food-, cosmetics and pharmaceutical industry.

Technical data	Type ST10 / RM10 230 V	Type SL10 / RM10 230 V	Type VA10 / RM10 230 V
Range of use	Neutral liquids like water, mineral oils.	Abrasive liquids like acids and alkalis.	Many acids, alkalis and other medias.
Flow volume	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 adjustment to application conditions	± 1% standard < 1% with adjustment to application conditions	± 1%
Inlet port	G 2 outer thread to fit connector with union nut	G 2 outer thread to fit connector with union nut	G 1 1/4 outer thread
Outlet port	G 1 1/4 outer thread	G 1 1/4 outer thread	G 1 1/4 outer thread
LCD display	Touch-Screen 63x63 mr	n, 128x128 pixels, Display sub-total and	d 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	IP 55	IP 55	IP 55
Weight	1,6 kg	1,6 kg	4,1 kg
Relay module RM10			
Voltage	220-230 V		
Frequency	50-60 Hz		
Switching outputs	2 NO (potentially bound)		
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 General information to the chemical resistance of the different flow meters you will find in our chemical resistance list. **Short-time 120 I/min.

Flow measurement with volume preselection - TS

for highly inflammable liquids







Flow meters type VA10 in PURE-version are optionally available for the food-, cosmetics and pharmaceutical industry.

Technical data	Type LM10 / Ex-RM10dK	Type UN10 / Ex-RM10dK	Type VA10 / Ex-RM10dK	
Range of use	Solvents and many other easily inflammable liquids, oils and neutral liquids.	Solvents and easily inflammable liquids, most of acids and alkalis.	Nearly all solvents and easily inflammable liquids. Many acids, alkalis and other liquids.	
Flow volume	min. 10 – max. 100** l/min.	min. 10 – max. 100** l/min.	min. 10 – max. 100 l/min.	
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 adjustment to application conditions	± 1% standard < 1% with adjustment to application conditions	± 1%	
Inlet port	G 2 outer thread to fit connector with union nut	G 2 outer thread to fit connector with union nut	G 1 1/4 outer thread	
Outlet port	G 1 1/4 outer thread	G 1 1/4 outer thread	G 1 1/4 outer 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 LCP FEP PPS encapsulated	Stainless steel (1.4581/1.4571)* Stainless steel (1.4581/1.4571) ETFE/PTFE FEP PTFE encapsulated	
Type of preotection: Operating unit Basic flow meter	II 2G Ex ib IIB T4*** II 2G T4	II 2G Ex ib IIB T4*** II 2G T4	II 2G Ex ib IIB T4*** II 2G T4	
Protection class	IP 55	IP 55	IP 55	
Weight	4,3 kg	4,3 kg	6,7 kg	
Relay module Ex-RM10dl	K			
Voltage		220-230 V		
Frequency		50-60 Hz		
Switching outputs		2 NO (potentially bound)		
Output 1 (pump)		8 A, cos > 0,7		
Output 2 (valve)		0,5 A		
Type of protection		II 2G Ex de [ib Gb] IIC T6 Gb		
Order No.	0231-020 + 0230-251	0231-030 + 0230-251	0231-040 + 0230-251	

^{*} Special materials on request General information to the chemical resistance of the different flow meters you will find in our chemical resistance list.
** Short-time 120 I/min.

^{***} Protection class II 2G Ex ib IIC T4 on request

Lutz Flow Meter Program

HDO Series: Oval gear principle





Product Features

The flow meters in plastic or metal version are oval gear types and are suitable for the transfer of thin bodied to highly viscous liquids.

- For high flow volumes, temperatures and pressures
- Few components and wearing parts
- Low pressure loss in the plant





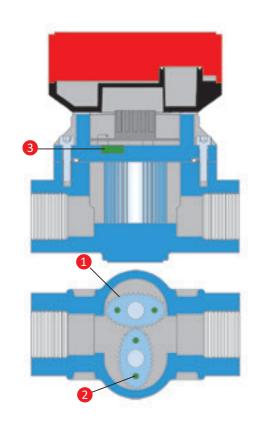




This is the way the HDO operates

Two oval gears interlocked and displaced by 90° in the meter housing are rotated by the flowing fluid. By means of the two oval gears a defined fluid volume "in portions" is transported. The magnets placed on the rotors are also rotated.

A reed contact fitted outside of the measuring chamber records the magnetic impulses produced. The volume of the flowing fluid is determined by the number of impulses recorded.



- 1 Oval gears
- 2 Permanent magnets
- 3 Reed contact

Lutz Flow Meter HDO 080 with pulse output

for very small flow volumes

- ✓ Housing material metal
- ✓ For very small flow volumes up to 8,3 l/min
- ✓ Compact basic flow meter with 0.3 m connecting cable and plug for connection to external operating unit
- ✓ For neutral liquids, many acids and alkalis, mineral oils, easily inflammable hydrocarbons, solvents, paints and lacquers, etc.
- ✓ With thread connection



Technical data	Type HDO 080 SS/SS
Range of measurement: below 5 mPas above 5 mPas	0.44 l/min - 8.3 l/min 0.25 l/min - 8.3 l/min
Temperature	max. 80 °C
Viscosity max.	1.000 mPas
Operating pressure max.	16 bar
Accuracy	below 5 mPas \pm 2.5% of measured quantity above 5 mPas \pm 1% of measured quantity
Reproducibility	± 0.03%
Nominal width	DN 8
Connections: thread/flange	G 1/4 IG
LCD display	Basic flow meter without operating unit (suitable operating unit: BE10/BE10 Ex see accessories)
Materials: Housing Rotors Shaft Seal	Stainless steel (1.4571) Stainless steel (1.4571) Stainless steel (1.4571) FPM (alt, FFPM, EPDM)*
Weight	0.7 kg
Type of protection: Basic flow meter	II 2G Ex h IIB T4 Gb
Order No.	Thread
up to 1.000 mPas	0230-600

^{*}Additional price seal FFPM Order No. 0230-316 Additional price Seal EPDM Order No. 0230-322

for non inflammable liquids and easily inflammable liquids

- ✓ Housing material metal
- ✓ For small flow volumes up to 30 l/min
- Non Ex-Version:
 For neutral liquids, many acids and alkalis mineral oil, paints and lacquers, etc.
- For inflammable mineral oil products, easily flammable hydrocarbons and other chemicals in explosion hazardous area
- ✓ With thread connection



Technical data	Type HDO 120 Alu/LCP	Type HDO 120 SS/SS	
Range of measurement:			
below 5 mPas	2 l/min - 25 l/min	2 l/min - 25 l/min	
above 5 mPas	1 l/min - 30 l/min	1 l/min - 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	
Accuracy	below 5mPas ± 2% of measured quantity above 5mPas ± 0,5% of measured quantity	below 5mPas ± 2% of measured quantity above 5mPas ± 0,5% of measured quantity	
Reproducibility	± 0.03%	± 0.03%	
Nominal width	DN 12	DN 12	
Connections:			
thread/flange	G 1/2 IG	G 1/2 IG	
LCD display		B 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)	
Rotors	LCP	Stainless steel (1.4404)	
Shaft	Stainless steel (1.4404)	Stainless steel (1.4404)	
Seal	FPM (alt. FFPM, EPDM)*	FPM (alt. FFPM, EPDM)*	
Protection class	IP 55	IP 55	
Weight	2.1 kg	4.5 kg	
Order No.	Thread	Thread	
up to 1.000 mPas	0231-101	0231-100	
Technical data	Type HDO 120 Alu/LCP Ex	Type HDO 120 SS/SS Ex	
Type of protection:			
Operating unit	II 2G Ex ib IIB T4***	II 2G Ex ib IIB T4***	
Basic flow meter	II 2G Ex h IIB T4 Gb	II 2G Ex h IIB T4 Gb	
Order No.	Thread	Thread	
up to 1.000 mPas	0231-103	0231-102	
optional: *Additional price seal FFPN	И Order No. 0230-315, Additional price seal EPDM Order No. 0230-321	**in Ex-Version *** Protection class II 2G Ex ib IIC T4 on request.	
Recommended Acce	essories: Power supply unit NG10***		
Voltage	220-230 V		
Frequency	50-60 Hz		
Order No.	0230-230		

**** Limited battery operation without power supply unit possible. Installation of power supply unit outside of the explosion hazard area required..

for non inflammable liquids and easily inflammable liquids

- ✓ Housing material metal
- ✓ For small and medium flow volumes up to 60 l/min
- Non Ex-Version:
 For neutrals liquids, many acids and alkalis mineral oil, paints and lacquers, etc.
- For inflammable mineral oil products, easily flammable hydrocarbons and other chemicals in explosion hazardous area
- ✓ With thread connection



Technical data	Type HDO 200 Alu/LCP	Type HDO 200 SS/SS	
Dearest			
Range of measurement: below 5 mPas	4.5 l/min - 53 l/min	4.5 /min - 53 /min	
above 5 mPas	2 l/min - 60 l/min	2 /min - 60 /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	
Accuracy	below 5 mPas ± 2% of measured quantity	below 5 mPas ±2 % of measured quantity	
Accuracy	above 5 mPas ± 0,5% of measured quantity	above 5 mPas ± 0,5% of measured quantity	
Reproducibility	+ 0.03%	± 0.03%	
Nominal width	DN 20	DN 20	
Connections:	DIV 20	DIV 20	
thread/flange	G 3/4 IG	G 3/4 IG	
LCD display	Touch-Screen 63x63 mm, 128x128 pixels, Display sub-total and total volume can be reset		
Menu language	DE, GB, ES, FR, IT, NL, PT, RU		
Materials:	DE, GB, ES, 1		
Housing	Aluminium	Stainless steel (1.4404)	
Rotors	LCP	Stainless steel (1.4404)	
Shaft	Stainless steel (1.4404)	Stainless steel (1.4404)	
Seal	FPM (alt. FFPM, EPDM)*	FPM (alt. FFPM, EPDM)*	
Protection class	IP 55	IP 55	
Weight	2.2 kg	4.8 kg	
Order No.	Thread	Thread	
up to 1.000 mPas	0231-105	0231-104	
Technical data	Type HDO 200 Alu/LCP Ex	Type HDO 200 SS/SS Ex	
Type of protection:			
Operating unit	II 2G Ex ib IIB T4***	II 2G Ex ib IIB T4***	
Basic flow meter	II 2G Ex h IIB T4 Gb	II 2G Ex h IIB T4 Gb	
Order No.	Thread	Thread	
up to 1.000 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 *** Protection class II 2G Ex ib IIC T4 on request.

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

^{****} Limited battery operation without power supply unit possible. Installation of power supply unit outside of the explosion hazard area required.

for non inflammable liquids and easily inflammable liquids

✓ Housing material plastic or metal

For small and medium flow volumes up to 170 l/min

✓ Non Ex-Version:

For neutral liquids, many acids and alkalis mineral oil, paints and lacquers, etc.

✓ Ex-Version:

For inflammable mineral oil products, easily flammable hydrocarbons and other chemicals in explosion hazardous area

✓ With thread- or flange connection



Technical data	Type HDO 250P	Type HDO	250 Alu/PPS	Type HDO	250 SS/PPS	Type HDO	250 SS/SS	
Range of measurement:								
below 5 mPas	8 l/min - 70 l/min	9,5 l/min - 15		9,5 l/min - 15		9,5 l/min - 150 l/min		
above 5 mPas	3 l/min - 75 l/min	6 l/min - 170	l/min	6 l/min - 170	6 l/min - 170 l/min		/min	
Temperature	max. 80 °C	max. 80 °C (6	max. 80 °C (60 °C**)		max. 80 °C (60 °C**)		60 °C**)	
Viscosity max.	1.000 mPas	500.000 mPas 50		500.000 mPas	5	500.000 mPas	5	
Operating pressure max.	10 bar	16 bar		16 bar		16 bar		
Accuracy quantitiy	below 5 mPas \pm 2 % of measured quantity above 5 mPas \pm 0.5% 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 IG	G 1 IG	PN 16	G 1 IG	PN 16	G 1 IG	PN 16	
LCD display	Touch-Scree	Touch-Screen 63x63 mm, 128x128 pixels, Display sub-total and total volu				ne can be reset		
Menu language			DE, GB, ES, FF	R, IT, NL, PT, RU				
Materials:								
Housing	PPS	Aluminium		Stainless steel (1.4404)		Stainless stee	Stainless steel (1.4404)	
Rotors	PPS	PPS		PPS		Stainless steel (1.4401)		
Shaft	Hastelloy C (2.4610)	· · · · · · · · · · · · · · · · · · ·		Stainless steel (1.4404)		Stainless stee	, ,	
Seal	FPM (alt. FEP, EPDM)*	FPM (alt. FFPI	M, EPDM)*	FPM (alt. FFP)	M, EPDM)*	FPM (alt. FFPN	И, EPDM)*	
Protection class	IP 55	IP 55		IP 55		IP 55		
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 1.000 mPas	0231-200	0231-209	0231-210	0231-205	0231-206	0231-201	0231-202	
up to 500.000 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	0 SS/PPS Ex	Type HDO 25	0 SS/SS Ex	
Type of protection: Operating unit Basic flow meter		II 2G Ex ib II II 2G Ex h IIE		II 2G Ex ib III II 2G Ex h IIE		II 2G Ex ib IIE		
Order No.		Thread	Flange	Thread	Flange	Thread	Flange	
up to 1.000 mPas		0231-221	0231-222	0231-217	0231-218	0231-213	0231-214	
up to 500.000 mPas		0231-223	0231-224	0231-219	0231-220	0231-215	0231-216	

Optional: *Additional price HDO 250P: seal FEP Order No. 0211-350, additional price HDO 250P: seal EPDM Order No. 0211-353, additional price HDO 250: seal FFPM Order No. 0230-312 additional price HDO 250: seal EPDM Order No. 0230-318. Drum pump connection for B70 / HD-E pump – see page 34. **in Ex-Version **** Protection class II 2G Ex ib IIC T4 on request.

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

**** Limited battery operation without power supply unit possible. Installation of power supply unit outside of the explosion hazard area required.

for non inflammable liquids and easily inflammable liquids

- ✓ Housing material metal
- ✓ For medium flow volumes up to 246 l/min
- ✓ **Non Ex-Version:**For neutral liquids, many acids and alkalis mineral oil, paints and lacquers, etc.
- For inflammable mineral oil products, easily flammable hydrocarbons and other chemicals in explosion hazardous areas
- ✓ With thread- or flange connection



Technical data	Type HDO 40	0 Alu/PPS	Type HDO 400	SS/PPS	Type HDO 400	SS/SS	
Range of measurement:							
below 5 mPas				15 l/min - 227 l/min 9,5 l/min - 246 l/min		15 l/min - 227 l/min	
above 5 mPas					9,5 l/min - 246 l/mi		
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		
Accuracy quantitiy		of measured quantity % of measured quantity	below 5 mPas ± 1% of above 5 mPas ± 0.5%		below 5 mPas ± 1% of above 5 mPas ± 0.5%		
Reproducibility	0,03%		0,03%		0,03%		
Nominal width	DN 40		DN 40		DN 40		
Connections:							
thread/ flange	G 1 1/2 IG	PN 16	G 1 1/2 IG	PN 16	G 1 1/2 IG	PN 16	
LCD display		Touch-Screen 63x63 m	m, 128x128 pixels, D	isplay sub-total and t	otal volume can be re	eset	
Menu language			DE, GB, ES, FR	R, IT, NL, PT, RU			
Materials:							
Housing	Aluminium		Stainless steel (1.4404)		(1.4404)		
Rotors	PPS		PPS		Stainless steel (1.4401)		
Shaft	Stainless steel (1.		Stainless steel (1.4404)		Stainless steel (1.4404)		
Seal	FPM (alt. FFPM, E	PDM)*	FPM (alt. FFPM, EPDM)*		FPM (alt. FFPM, EPC)M)*	
Protection class	IP 55		IP 55		IP 55		
Weight	4,5 kg	5,5 kg	10,4 kg	12,0 kg	10,5 kg	12,1 kg	
Order No.	Thread	Flange	Thread	Flange	Thread	Flange	
up to 1.000 mPas	0231-233	0231-234	0231-229	0231-230	0231-225	0231-226	
up to 500.000 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 400	SS/SS Ex	
Type of protection:							
Operating unit Basic flow meter	II 2G Ex ib IIB T4 II 2G Ex h IIB T4		II 2G Ex ib IIB T4** II 2G Ex h IIB T4 G		II 2G Ex ib IIB T4** II 2G Ex h IIB T4 Gl		
		GD —					
Order No.	Thread	Flange	Thread	Flange	Thread	Flange	
up to 1.000 mPas	0231-245	0231-246	0231-241	0231-242	0231-237	0231-238	
up to 500.000 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 B70 / HD-E pump – see page 34.

** in Ex-Version *** Protection class II 2G Ex ib IIC T4 on request.

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

**** Limited battery operation without power supply unit possible. Installation of power supply unit outside of the explosion hazard area required.

for non inflammable liquids and easily inflammable liquids

- ✓ Housing material metal
- For large flow volumes up to 380 l/min
- Non Ex-Version: For neutral liquids, many acids and alkalis mineral oil, paints and lacquers, etc.
- For inflammable mineral oil products, easily flammable hydrocarbons and other chemicals in explosion hazardous areas
- ✓ With flange connection



Technical data	Type HDO 500 Alu/PPS	Type HDO 500 SS/PPS	Type HDO 500 SS/SS
Range of measurement:			
below 5 mPas	23 l/min - 380 l/min	23 l/min - 380 l/min	23 l/min - 380 l/min
above 5 mPas	15 l/min - 380 l/min	15 l/min - 380 l/min	15 l/min - 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
Accuracy quantitiy	below 5 mPas \pm 1% of measured quantity above 5 mPas \pm 0.5% of measured quantity	below 5 mPas \pm 1% of measured quantity above 5 mPas \pm 0.5% of measured quantity	below 5 mPas ± 1% of measured quantity above 5 mPas ± 0.5% of measured quantity
Reproducibility	± 0,03%	± 0,03%	± 0,03%
Nominal width	DN 50	DN 50	DN 50
Connections:			
thread/ flange	PN 16	PN 16	PN 16
LCD display	Touch-Screen 63x63 mr	m, 128x128 mm pixels, Display sub-total a	and 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)
Rotors	PPS	PPS	Stainless steel (1.4401)
Shaft	Stainless steel (1.4404)	Stainless steel (1.4404)	Stainless steel (1.4404)
Seal	FPM (alt. FFPM, EPDM)*	FPM (alt. FFPM, EPDM)*	FPM (alt. FFPM, EPDM)*
Protection class	IP 55	IP 55	IP 55
Weight	6,6 kg	13,6 kg	13,8 kg
Order No.	Flange	Flange	Flange
up to 1.000 mPas	0231-253	0231-251	0231-249
up to 500.000 mPas	0231-254	0231-252	0231-250
Technical data	Type HDO 200 Alu/PPS Ex	Type HDO 200 SS/PPS Ex	Type HDO 500 SS/SS Ex
Type of protection:			
Operating unit	II 2G Ex ib IIB T4***	II 2G Ex ib IIB T4***	II 2G Ex ib IIB T4***
Basic flow meter	II 2G Ex h IIB T4 Gb	II 2G Ex h IIB T4 Gb	II 2G Ex h IIB T4 Gb
Order No.	Flange	Flange	Flange
up to 1.000 mPas	0231-259	0231-257	0231-255
up to 500.000 mPas	0231-260	0231-258	0231- 256
Optional: *Additional price seal: FFPI	M Order No. 0230-314, Additional price seal: EPDM Orc	der No. 0230-320. ** in Ex-Version *** Protection of	class II 2G Ex ib IIC T4 on request.

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

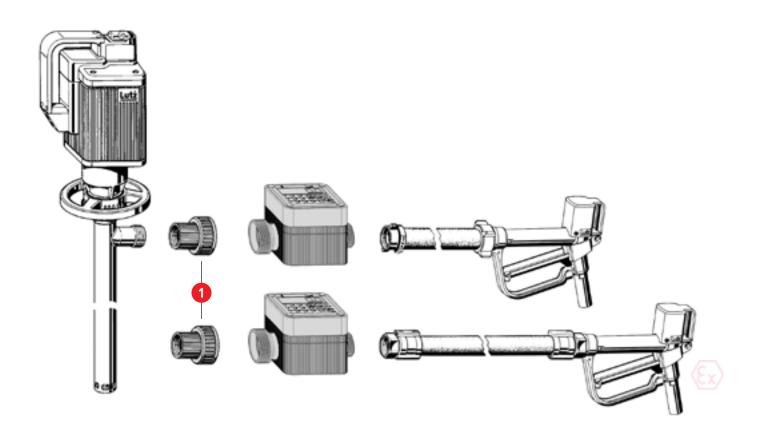
Limited battery operation without power supply unit possible. Installation of power supply unit outside of the explosion hazard area required.

Accessories Lutz Flow Meter Program

for mobile and stationary applications



Flow meter TSB without volume preselection



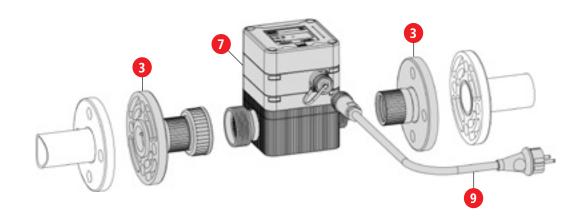
... Flange version



Product detail	Specification		Order-No.
	1 Drum pump connection Connects the flow meter TSB to a drum an PPO/FPM G 1 1/4 IG PPS/FPM-FEP G 1 1/4 IG	d container pump. for ST for LM, UN	0211-130 0211-132 •
Care .	Stainless steel/PTFE G 1 1/4 - G 1 1/4 IG Stainless steel/PTFE G 1 1/4 - G 1 1/2 IG	for VA for VA	0211-211 • 0211-214 •

FPM is a registered trademark of DuPont Performance Elastomers.

Flow meter TS without volume preselection

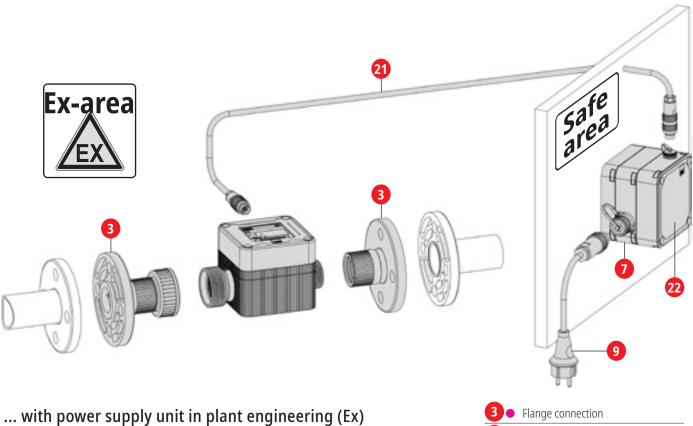


... with power supply unit in plant engineering

Flange connection

Power supply unit NG10

Mains connection cable



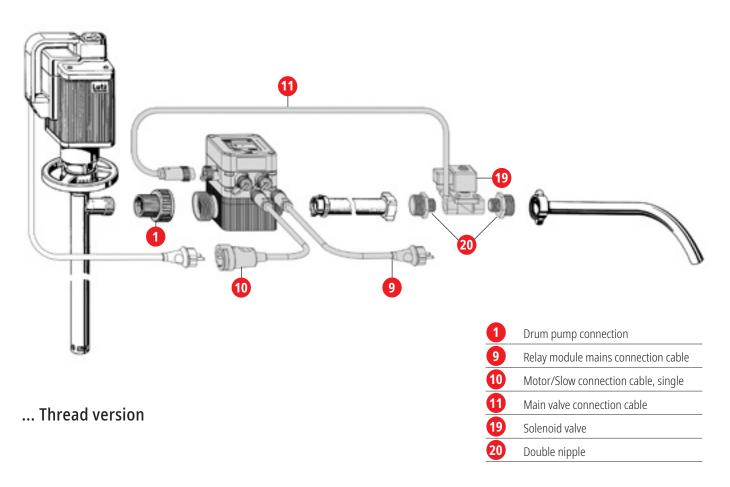
Power supply unit NG10

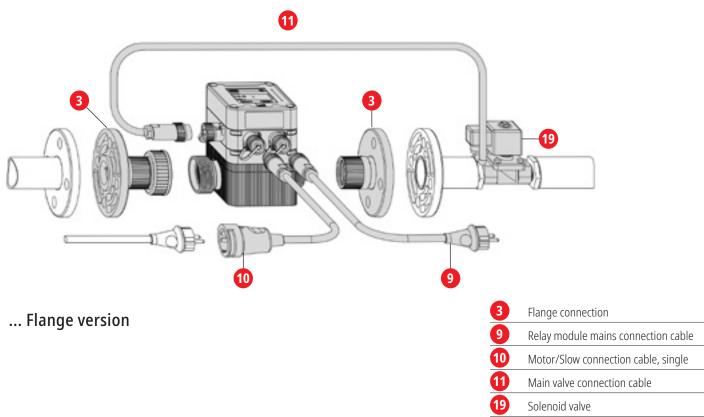
Mains connection cable

Data cable

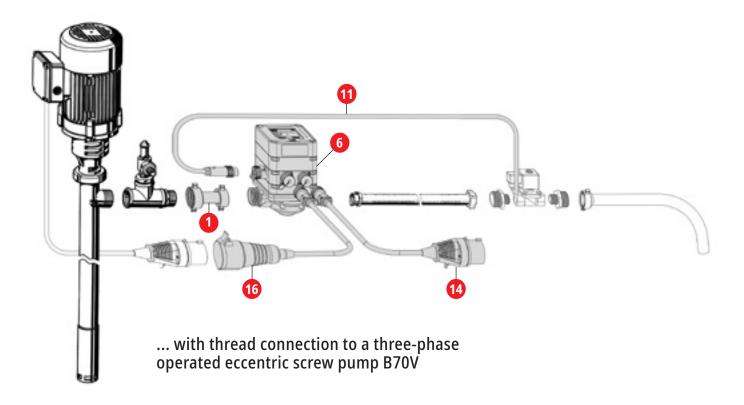
Protection cover SH10

Flow measurement with volume preselection



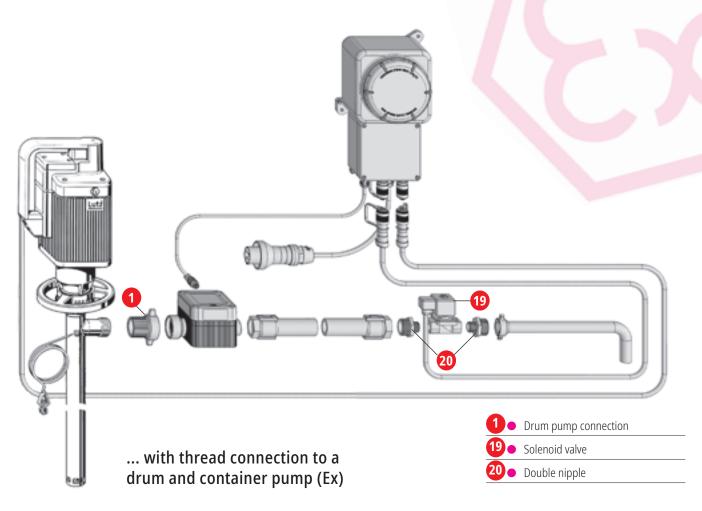


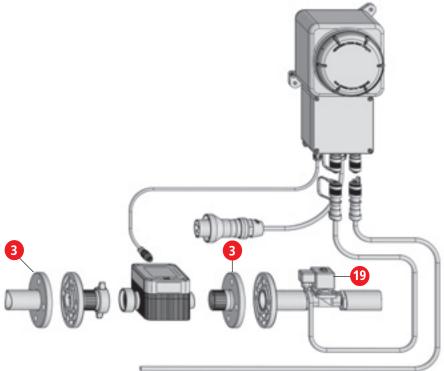
Flow measurement with volume preselection ...



Drum pump connection
 Relay module RM30
 Main valve connection cable
 Mains connection cable RM30 400 V
 Connection cable motor RM30 400 V

Flow measurement with volume preselection ...





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

3 Flange connection

19 Solenoid valve

Connection fittings

Product detail	Specification	Order-No.
	1 Drum pump connection Connects the flow meter to a drum and container pump. PPO/FPM G 1 1/4 inner tread for ST10, SL10 PPS/FPM-FEP G 1 1/4 inner tread 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 •
	1 Drum pump connection Connects the flow meter to an eccentric screw pump B70-V or HD-E PP/PTFE G 1 OT x G 1 1/4 IT for HD0250 P Stainless steel/PTFE G 1 OT* x G 1 1/4 IT* for HD0250 Stainless steel/PTFE G 1 OT* x G 1 1/2 IT* for HD0250	0211-332 0211-330 • 0211-331 •
	2 Double nipple Connects the flow meter to a pipeline system PP G 1 OT x G 1 1/4 AG, 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 *Spacer ring 0231-545 is additionally required	5000-070 5000-073* 0211-340*
	Flange connection Connects the flow meter to a pipeline system. PPO/FPM DN 32, PN 10, two-sided for ST10, SL10 PPS/FPM-FEP DN 32, PN 10, two-sided for LM10, UN10 Stainless steel DN 25, PN 6, one-sided for VA10 Stainless steel DN 32, PN 6, one-sided for VA10 Stainless steel DN 32, PN 10, one-sided for VA10 Stainless steel DN 32, PN 10, one-sided for VA10 Stainless steel DN 40, PN 10, one-sided for VA10	0211-131 0211-133 • 0208-620 • 0208-621 • 0208-622 • 0208-623 •
	Thread connection Connects the flow meter to screw-type flanges or threaded screw connections. PPO/FPM G 1 1/4 outer tread for ST10, SL10 PPS/FPM-FEP G 1 1/4 outer tread for LM10, UN10	0211-135 0211-136 •
Open Company	Non-return valve Prevents flow back of the liquid in the hose system. PTFE/FPM for ST10, SL10 PTFE/FPM-FEP for LM10, UN10 Opening pressure: 0.05 bar	0211-140 0211-141 •

FPM is a registered trademark of DuPont Performance Elastomers. *OT = Outer Thread / *IT = Inner Thread

for volume preselection

Specification Order-No. Product detail

5 Relay module RM10

Facilitates volume preselection in combination with the appropriate connection cables.

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

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

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



5 Relay module Ex-RM10dK (complete version)

Facilitates the filling with volume preselection in Ex-areas. Ex-plug-type connections "mini CLIX®/eXLink-System®" With 5 m connecting cable and 3-pole ex-plug (CEAG), incl. data line 5 m and coupling plug 14-pole.

220-230 V, 50-60 Hz, II 2G Ex de [ib Gb] IIC T6 Gb

for LM10, UN10, VA10 HD0080Ex, HD0120Ex, HD0200Ex, HD0250Ex, HD0400Ex, HD0500Ex

0230-251



5 Relay module Ex-RM10dB (basic version)

Facilitates volume preselection in ex-areas. Without cables, accessories on request, incl. data line 5 m and coupling plug 14-pole.

220-230 V, 50-60 Hz, II 2G Ex de [ib Gb] IIC T6 Gb

for LM10, UN10, VA10 HD0080Ex, HD0120Ex, HD0200Ex, HD0250Ex, HD0400Ex, HD0500Ex

0230-250



6 Relay module RM30

Facilitates volume preselection in combination with the appropriate connection cables. For controlling rotary current and capacitor motors.

400 V, 1.5 kW, 50 Hz resp. 230 V, 0.8 kW, 50 Hz II (2) G [Ex ib] IIC

for ST10, SL10, VA10 HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-220**



Power supply unit NG10 230V

Supplies the control unit with power (instead of batteries). This function is already included in relay modules.

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

for ST10, SL10, VA10 HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-230**



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

for volume preselection

Product detail	Specification		Order-No.
	Communication module allows the communication with ex analog output (0-20mA, 4-20mA, 0 RS485 interface, alarm output, Dig)-10 V), analog output,	
	8 Communication module KM10 with cable protective covering	OK (complete version) for ST10, SL10, VA10, HD0080, HD0120, HD0200, HD0250, HD0400, HD0500	0230-101
	8 Communication module Ex-KN with cable protective covering II 2G Ex ib IIC T4	for LM10, UN10, VA10, HD0080Ex, HD0120Ex, HD0250Ex, HD0400Ex, HD0500Ex	on request ●
0	Power cable relay module 5 m long 230 V, 50 Hz	for RM10, NG10	0211-155
	10 Connecting cable Motor/Slow 0.5 m long 230 V, 50 Hz	1-way for RM10	0211-153
	Connecting cable motor/slow 0.5 m long 230 V, 50 Hz	3-way for RM10	0211-154

for volume preselection

	Specification		Order-No.	Product deta
1	Connecting cable main valve 5 m long 230 V, 50 Hz	for RM10 and RM30	0211-150	
2	Connecting cable slow-valve 5 m long 230 V, 50 Hz	for RM10	0211-151	Ö.
B	Extension cable 5 m long 230 V, 50 Hz	for RM10	0211-152	
4	Power cable RM30 400 V 5 m long 400 V, 50 Hz, 5-wire	for RM30	0211-388	
Б	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*	
	Coupling for mains connection 230 V, 50 Hz, 4-pole	for RM10	0336-099	
6	Connecting cable motor RM30 400 V 0.6 m long 400 V, 50 Hz, 5-pole	for RM30	0211-386	
D	Power cable RM30 230 V 5 m long 230 V, 50 Hz	for RM30	0211-387	
8	Connecting cable motor RM30 230 V 0.5 m long 230 V, 50 Hz	for RM30	0211-385	

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

for volume preselection

Product detail	Specification	Order-No.
	Solenoid valve brass FPM seal, connection G 3/4 inner thread 230 V, 50 Hz for RM10 and RM30	0211-096
	Solenoid valve stainless steel FPM seal, connection G 3/4 inner thread 230 V, 50 Hz for RM10 and RM30	0211-097
	19 Solenoid valve PVC* FPM seal, connection G 3/4 inner thread 230 V, 50 Hz for RM10 and RM30	0211-098
	Solenoid valve brass, Ex PTFE seal, connection G 3/4 inner thread, incl. 5 m connecting cable and "mini CLIX®/eXLink®-plug" 230 V, 50 Hz, II 2G Ex eb mb IIC T3 Gb for Ex-RM10mK	0211-396 ●
	PTFE seal, connection G 3/4 inner thread, incl. 5 m connecting cable and "mini CLIX®/eXLink®-plug" 230 V, 50 Hz, II 2G Ex eb mb IIC T3 Gb for Ex-RM10mK	0211-395 •
	Double nipple PP G 3/4 outer thread – G 1 1/4 outer thread Double nipple brass	0211-606
	G 3/4 outer thread – G 1 1/4 outer thread Double nipple stainless steel G 3/4 outer thread – G 1 1/4 outer thread	0204-346 • 0204-347 •

^{*}Non-return valve (0211-140 or 0211-141) for full hose system needed.

Miscellaneous installation accessories

Specification Order-No. Product detail

21 Data cable

Connects the modules in the case of decentralised installation.

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

HDO080, HDO120, HDO200, HDO250, HDO400, HDO500 **0230-306**

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

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

Data cable SPS

for the connection of a basic flow meter with protection cap onto a PLC.

14-pole, with a free cable end, 5 m long. 0230-317

Protection cover SH10 with 1 data socket

Protects the modules in the case

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

HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-350** •

Protection cover SH20 with 2 data socket

Protects the modules in the case

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

HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-351**

Pulse converter

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

to the next module is more than 5 m

Pulse converter IW10 with 1 data socket

for ST10, SL10, VA10,

HDO080, HDO120, HDO200, HDO250, HDO400, HDO500 **0230-352**

Pulse converter IW20 with 2 data socket

for ST10, SL10, VA10,

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

24 All-purpose plate

For wall-mounting or as a heat protection plate for ST10, SL10, LM10, UN10, VA10,

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

25 Wall bracket set

Additional clamp fixing for for ST10, SL10, LM10, UN10, VA10,

DIN rails (TS 35) EN 50022 HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-307**

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

26 Hose bracket for control unit

For decentralised installation

of the modules on a hose line. for ST10, SL10, LM10, UN10, VA10,

HD0080, HD0120, HD0200, HD0250, HD0400, HD0500 **0230-303** •











Product detail	Specification		Order-No.
	27 Control unit BE10	for ST10, SL10, VA10, HDO080, HDO120, HDO200, HDO250, HDO400, HDO500	0230-000
	27 Control unit BE10V With compound-filled electron	ics for ST10, SL10, VA10, HD0080, HD0120, HD0200, HD0250, HD0400, HD0500	0230-001
	27 Control unit Ex-BE10B II 2G Ex ib IIB T4	for LM10, UN10, VA10, HDO080Ex, HDO120Ex, HDO200Ex, HDO250Ex, HDO400Ex, HDO500Ex	0230-010 •
	Control unit Ex-BE10BV With compound-filled electron II 2G Ex ib IIB T4	ics for LM10, UN10, VA10, HDO080Ex, HDO120Ex, HDO200Ex, HDO250Ex, HDO400Ex, HDO500Ex	0230-011
	27 Control unit Ex-BE10C II 2G Ex ib IIC T4	for LM10, UN10, VA10, HDO080Ex, HDO120Ex, HDO200Ex, HDO250Ex, HDO400Ex, HDO500Ex	0230-020 •
	With compound-filled electron II 2G Ex ib IIC T4	ics for LM10, UN10, VA10, HD0080Ex, HD0120Ex, HD0200Ex, HD0250Ex, HD0400Ex, HD0500Ex	0230-021 •

Basic flow meter for decentralised assembly and external data evaluation

Given larger distances between the measuring and control point or installation locations difficult to access in the plant, the individual modules (basic flow meter, operating unit, relay module, etc.) can be installed in different locations. The data transfer between the components is

established by data cable, protective cover/ pulse converter and plug connection without awkward and complicated wiring.

For data transmission to an external signal processor (e.g. SPS), a communication module is necessary.

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

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Drum and container pumps

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 $Am\ Bostelberge\ 19 \cdot D-30900\ Wedemark \cdot Phone\ (+49\ 51\ 30)\ 58\ 02-0 \cdot Fax\ (+49\ 51\ 30)\ 58\ 02\ 68 \cdot E-Mail: info@lutz-jesco.com$

www.lutz-jesco.com





Lutz Pumpen GmbH

Erlenstraße 5-7 D-97877 Wertheim Phone: +49 93 42 / 8 79-0

Fax: +49 93 42 / 87 94 04 E-Mail: info@lutz-pumpen.de