

The new generation of flow meters In Touch with the Future

Menu

71.17 US-Gal

82.83 US-Gal

RESET

Man

2

Safety is our Concern

OK

Start filling process?

Cancel

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

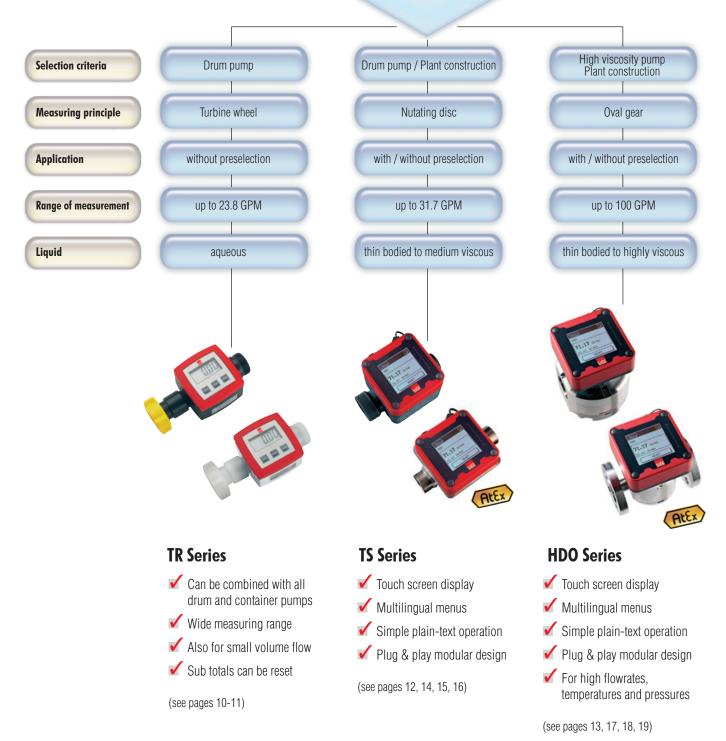


Scan for





Selection Criteria



3



115-631

IMF.

6

THIME Whit

Flexible to use. A wide array of possibilities:

- Food, gourmet and beverage industry
- Chemical industry
 - Petrochemicals
 - Chemicals and mineral oils
 - Machine shops and metal working
 - Automotive industry and suppliers
 - Electroplating and surface treatment
 - Paint and varnish industry
 - Pharmaceuticals and cosmetics
 - Plant and apparatus construction
 - Engineering and design



On Point Sol, Value Switch on after Pressing "START"

DF+

Change Value

Cancel

Dry

Ūk.

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.

Discover the pluses of innovative Lutz technology:

- + Touch screen display
- + Multilingual menus
- + Simple plain-text operation
- + Integrated help function
- + High precision through overrun correction and characteristic adjustment
- + Safety and monitoring functions
- + Simple system connection
- + Plug & play modular design

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.

Language

EEParic

CIK.

Select

Eng

DE





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.

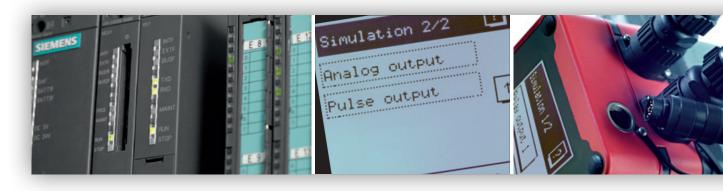


Combine to your needs. Easy to assemble.

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.

?

Menu

71.17 US-Gal

RESET

Lutz

82.83 US-Gal

MAN

- Simple installation and start-up
 - External controls and data evaluation through standard interfaces
 - Modules can be installed separately by location
 - Always the best technical and financial solution
 - **Short maintenance times**

Lutz Flow Meter Program

The Reasonable: Lutz flow meter TR

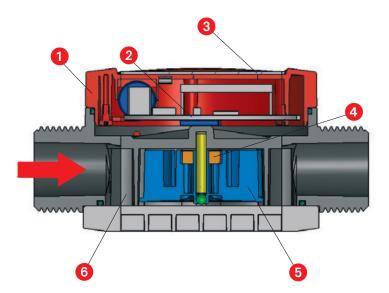


Easy handling

Easy handling, compact built and a quick assemble to all drum and container pumps: The Lutz flow meter TR in PP or PVDF. A manageable meter which you can count on in all situations. This flow meter measures accurately thin-bodied, non-inflammable liquids.

A quick and reliable measurement: How it works

The flowing liquid causes the turbine to rotate thereby it accurately measures the pulses. The measured values are transmitted and processed electronically as a result. Thereupon the digital in front of display shows the sub total and the total volume.



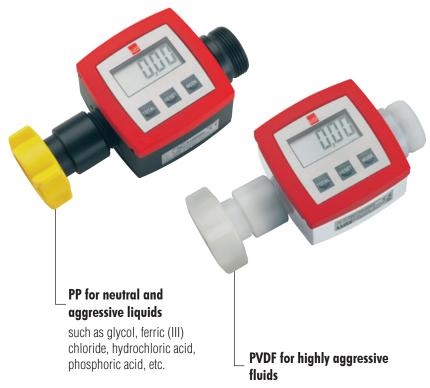
- 1 Housing top (PP or PVDF)
- 2 PCB
- 8 Keypad foil
- 4 Magnet
- 5 Radial turbine wheel (PP or PVDF)
- 6 Measuring chamber (PP or PVDF)

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 TR90-PP (Order No. 0213-031).



such as chlorine solution, nitric acid, sulphuric acid, etc.

Туре		TR90-PP		TR90-PVDF
Material	housing top keypad	PP PES		PVDF PES
Material (in contact with the medium)	measuring chamber turbine shaft, bearing ball seal	PP Hastelloy C-2000 (2.4675)		PVDF PVDF Hastelloy C-2000 (2.4675) FPM
Range of measurement	GPM	1.3-23.8		1.3-23.8
Range of viscosity	cps	0.8-40		0.8-40
Operating pressure	psi	58 (at 68 °F)		58 (at 68 °F)
Accuracy of measurement	%	± 1*		± 1*
Repeating accuracy	%	± 0.5		± 0.5
Connection		1" BSP	1 1/4" BSP	1 1/4" BSP
Weight	lbs.	0.7		0.9
Protection class		IP 65		IP 65
Range of temperature	°F	14 up to 122		14 up to 122
Order No. As	sembly at Lutz B2 Vario	0213-031	—	—
Order No. As	sembly at drum pump	-	0213-030	0213-040
Order No. As	sembly at nozzle	-	0213-032	0213-042

*Test assembly: Medium water, 0.66 ft inlet runs and outlet runs

Lutz Flow Meter Program

TS Series: Nutating disc principle



Product Features

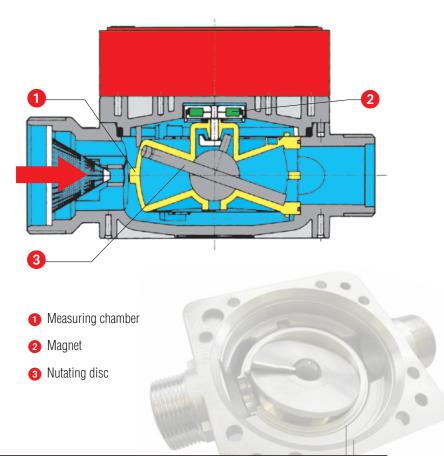
The flow meters in plastic or metal version are nutating disc types and are suitable for the transfer of neutral, aggressive, flammable and viscous liquids.

Wide application range

Available in PU 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.



Lutz Flow Meter Program

HDO Series: Oval gear principle



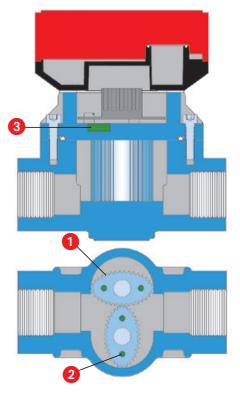
Product Features

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.



Oval gears
 Permanent magnets

3 Reed contact

Flow measurement without volume preselection - TS

for non flammable liquids





Flow meter type VA10 in physiologically safe version (PU). The flow meters are mainly used in the food-, cosmetics- and pharmaceutical industry. Additional costs see price list.

Technical data	Type ST10	Type SL10	Type VA10	Type HC10		
Compatibility:	Consult Lutz chemical resistance table	Consult Lutz chemical resistance table	Consult Lutz chemical resistance table	Consult Lutz chemical resistance table		
Flow volume GPM	min. 2.6 – max. 26.4**	min. 2.6 – max. 26.4**	min. 2.6 – max. 26.4	min. 2.6 – max. 26.4		
Temperature °F	140	140	176	176		
Viscosity cps	2.000	2.000	4.000	4.000		
Operating pressure psi	58	58	145	145		
Accuracy	+/- 1% standard < 1% with adjustment to application conditions	+/- 1% standard < 1% with adjustment to application conditions	+/- 1%	+/- 1%		
Inlet port	2" male BSP to fit connector with union nut	2" male BSP to fit connector with union nut	1 1/4" male BSP	1 1/4" male BSP		
Outlet port	1 1/4" male BSP	1 1/4" male BSP	1 1/4" male BSP	1 1/4" male BSP		
LCD display		Touch-Screen 2.5x2.5 inch 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 chamber Seals Magnet	PPO PPO/PPS FPM BaFe / PA / Stainless steel 1.4401	PPO PPO/PPS FPM PPS encapsulated	Stainless steel (1.4581)* Stainless steel / ETFE / ETFE FEP ETFE encapsulated	Hastelloy C (2.4610) HC / ETFE / ETFE FEP ETFE encapsulated		
Protection class	IP 55	IP 55	IP 55	IP 55		
Weight Ibs.	2.4	2.4	8.2	8.8		
Order No.	0231-000	0231-010	0231-049	0231-059		

* Special materials on request

** Short-time 31.7 GPM

Flow measurement without volume preselection - TS

for highly flammable liquids





Technical data	Type LM10 Ex	Type UN10 Ex	Type VA10 Ex	Type HC10 Ex	
Compatibility:	Consult Lutz chemical resistance table	Consult Lutz chemical resistance table	Consult Lutz chemical resistance table	Consult Lutz chemical resistance table	
Flow volume GPM	min. 2.6 – max. 26.4**	min. 2.6 – max. 26.4**	min. 2.6 – max. 26.4	min. 2.6 – max. 26.4	
Temperature °F	140	140	140	140	
Viscosity cps	2.000	2.000	4.000	4.000	
Operating pressure psi	58	58	145	145	
Accuracy	+/- 1% standard < 1% with adjustment to application conditions	+/- 1% standard < 1% with adjustment to application conditions	+/- 1%	+/- 1%	
Inlet port	2" male BSP to fit connector with union nut	2" male BSP to fit connector with union nut	1 1/4" male BSP	1 1/4" male BSP	
Outlet port	1 1/4" male BSP	1 1/4" male BSP	1 1/4" male BSP	1 1/4" male BSP	
LCD display	Touch-Screen 2.5x2.5 inch 128x128 pixels Display sub-total and 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)* Stainless steel / ETFE / ETFE FEP ETFE encapsulated	Hastelloy C (2.4610) HC / ETFE / ETFE FEP ETFE encapsulated	
Type of protection: Operating unit Basic flow meter	II 2 GEx IIB T4*** II 2 G T4	II 2 GEx IIB T4*** II 2 G T4	II 2 GEx IIB T4*** II 2 G T4	II 2 GEx IIB T4*** II 2 G T4	
Protection class	IP 55	IP 55	IP 55	IP 55	
Weight Ibs.	2.4	2.4	8.2	8.9	
Order No.	0231-020	0231-030	0231-040	0231-050	
* Special materials on request					

** Short-time 31.7 GPM

*** Also available in protection class II 2 GEx IIC T4

Flow measurement with volume preselection - TS

for non flammable liquids





Flow meter type VA10 in physiologically safe version (PU). The flow meters are mainly used in the food-, cosmetics- and pharmaceutical industry.

Technical data		Type ST10 / RM10 120 V	Type SL10 / RM10 120 V	Type VA10 / RM10 120 V	
Compatibility:		Consult Lutz chemical resistance table	Consult Lutz chemical resistance table	Consult Lutz chemical resistance table	
Flow volume	GPM	min. 2.6 – max. 26.4**	min. 2.6 – max. 26.4**	min. 2.6 – max. 26.4	
Temperature	°F	140	140	176	
Viscosity	cps	2.000	2.000	4.000	
Operating pressure	psi	58	58	145	
Accuracy		+/- 1% standard < 1% with adjustment to application conditions	+/- 1% standard < 1% with adjustment to application conditions	+/- 1%	
Inlet port		2" male BSP to fit connector with union nut	2" male BSP to fit connector with union nut	1 1/4" male BSP	
Outlet port		1 1/4" male BSP	1 1/4" male BSP	1 1/4" male BSP	
LCD display		Touch-Screen 2.5x2.5 inch 128x128 pixels Display sub-total and 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)* Stainless steel / ETFE / ETFE FEP ETFE encapsulated	
Protection class		IP 55	IP 55	IP 55	
Weight	lbs.	3.5	3.5	8.8	
Relay module R	IIVI I U V		100,100		
Voltage	•	100-120			
Frequency	Hz	50-60			
Switching outputs Dutput 1 (pump)		2 NO (potentially bound)			
,		8 A, cos > 0.7			
Output 2 (valve)			0.5 A		
Order No. * Special materials on request		0231-002	0231-012	0231-042	

** Short-time 31.7 GPM

Lutz Flow Meter HDO250

for non flammable liquids and easily flammable liquids

✓ Housing material plastic or metal

✓ For small and medium flow volumes up to 45 GPM

V Non Ex-Version:

For neutral liquids, many acids and alkalis mineral oil and cosmetic products, food-, paints and lacquers, etc.

ALEX **Ex-Version**:

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

✓ With thread- or flange connection



Technical data	Type HDO250P	Type HD025	D Alu/PPS	Type HDO25	0 SS/PPS	Type HDO25	O SS/SS	
Range of measurement:								
below 5 cps	2.1 GPM - 18.5 GPM	1.5 GPM - 45 GPM		1.5 GPM - 45 GPM		1.5 GPM - 45 G	1.5 GPM - 45 GPM	
above 5 cps	0.8 GPM - 19.8 GPM	2.5 GPM - 40 G	PM	2.5 GPM - 40 GF	PM	2.5 GPM - 40 G	PM	
Temperature	max. 176 °F	max. 176 °F (14	0 °F**)	max. 176 °F (140) °F**)	max. 168 °F (14	0 °F**)	
Viscosity max.	1,000 cps	500,000 cps		500,000 cps		500,000 cps		
Operating pressure max.	145 psi	232 psi		232 psi		232 psi		
Accuracy	+/- 0,5% of measured quantity	+/- 0,5% of meas	sured quantity	+/- 0,5% of measure	sured quantity	+/- 0,5% of mea	sured quantity	
Reproducibility	0,03%	0,03%		0,03%		0,03%		
Nominal width	DN 25	DN 25		DN 25		DN 25		
Connections:								
thread/flange	1" female BSP	1" female BSP	PN 16	1" female BSP	PN 16	1" female BSP	PN 16	
LCD display			Touch-Screer					
			128x12					
				otal volume can be	reset			
Menu language		[DE, GB, ES, FR	, IT, NL, PT, RU				
Materials:								
Housing	PPS	Aluminium		Stainless steel (1.4404)		Stainless steel (1.4404)		
Rotors	PPS	PPS		PPS		Stainless steel (1.4401)		
Shaft	Hastelloy C (2.4610)	Stainless steel (*	,	Stainless steel (1.4404)		Stainless steel (1.4404)		
Seal	Viton [®] (alt. FEP*)	Viton [®] (alt. Kalre	€Z [®] *)	Viton [®] (alt. Kalrez [®] *)		Viton® (alt. Kalrez®*)		
Protection class	IP 55	IP 55		IP 55	40.11	IP 55	40.0.11	
Weight	2.4 lbs.		6.6 lbs.		13 lbs.		13.2 lbs.	
Order No.	Thread		Flange		Flange		Flange	
up to 1.000 cps	0231-200		0231-210		0231-206		0231-202	
up to 500.000 cps	-	0231-211	0231-212	0231-207	0231-208	0231-203	0231-204	
Technical data		Type HDO25	0 Alu/PPS	Type HD025	0 SS/PPS	Type HD025	0 SS/SS	
Type of protection:			**		*		**	
Operating unit Basic flow meter		II 2 G Ex IIB T4* II 2 G c T4	ALEX	II 2 G Ex IIB T4*' II 2 G c T4	ALEX	II 2 G Ex IIB T4* II 2 G c T4	ALEX	
			-		-		Elango	
Order No.			Flange 0231-222		Flange 0231-218		Flange 0231-214	
up to 1.000 cps			0231-222		0231-218		0231-214	
up to 500.000 cps								

Optional: *Additional price HDO 250P: seal FEP Order No. 0211-350, additional price HDO 250P: seal FEPDM Order No. 0211-353, additional price HDO 250: seal Kalrez® Order No. 0230-312 Spring Friedrich (Strand Production Class II 2 G Ex IIC T4 Drum pump connection for B70 / HD-E pump – see page 23. Viton® und Kalrez® is a registered trademark of DuPont Performance Elastomers

Lutz Flow Meter HDO400

for non flammable liquids and easily flammable liquids

✓ Housing material metal

✓ For medium flow volumes up to 65 GPM

✓ Non Ex-Version:

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

Ex-Version:

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

ALEX

With thread- or flange connection



Technical data	Type HDO400 AI	u/PPS	Type HDO400 S	S/PPS	Type HDO400 SS	S/SS
Range of measurement					2.5 GPM - 65 GPM	
below 5 cps				2.5 GPM - 65 GPM		
above 5 cps	4 GPM - 60 GPM	**\	4 GPM - 60 GPM	**/	4 GPM - 60 GPM	-+)
Temperature	max. 176 °F (140 °F)	max. 176 °F (140 °F	····)	max. 248 °F (140 °F*	···)
Viscosity max.	500,000 cps		500,000 cps		500,000 cps	
Operating pressure max.	232 psi	d quantity	232 psi	d quantity	232 psi	d quantity
Accuracy Reproducibility	+/- 0.5% of measure 0.03%	u quantity	+/- 0.5% of measure 0.03%	u quantity	+/- 0.5% of measured 0.03%	I qualitity
Nominal width	DN 40		DN 40		DN 40	
Connections:	DIN 40		DIN 40		DIN 40	
thread/flange	1 1/2" female thread	PN 16	1 1/2" female thread	PN 16	1 1/2" female thread	PN 16
LCD display			Touch-Screen 2.5x2.5 i			
LOD display			128x128 pixels	inon		
		Display su	b-total and total volum	e can be reset		
Menu language			, GB, ES, FR, IT, NL, PT, RU			
Materials:						
Housing	Aluminium		Stainless steel (1.4404)		Stainless steel (1.4404)	
Rotors	PPS		PPS		Stainless steel (1.440	'
Shaft	Stainless steel (1.443	· ·	Stainless steel (1.4404)		Stainless steel (1.440	· ·
Seal	Viton [®] (alt. Kalrez ^{®*})	Viton® (alt. Kalrez®*)		Viton [®] (alt. Kalrez ^{®*})	
Protection class	IP 55		IP 55		IP 55	
Weight		12.1 lbs.		26.5 lbs.		26.7 lbs.
Order No.	Thread	Flange		Flange		Flange
up to 1,000 cps	0231-233	0231-234		0231-230		0231-226
up to 500,000 cps	0231-235	0231-236	0231-231	0231-232	0231-227	0231-228
Technical data	Type HDO400 AI	u/PPS Ex	Type HDO400 S	S/PPS Ex	Type HDO400 SS	S/SS Ex
Type of protection:				_		
Operating unit	II 2 G Ex IIB T4***	ALEX	II 2 G Ex IIB T4***	ALEX	II 2 G Ex IIB T4***	ALEX
Basic flow meter	II 2 G c T4		II 2 G c T4		II 2 G c T4	-
Order No.	Thread	Flange	Thread	Flange		Flange
up to 1,000 cps	0231-245	0231-246	0231-241	0231-242		0231-238
up to 500,000 cps	0231-247	0231-248	0231-243	0231-244	0231-239	0231-240

Optional: *Additional price seal Kalrez® Order No. 0230-313 **in Ex-Version **** Also available in protection class II 2 GEx IIC T4 Drum pump connection for B70 / HD-E pump – see page 23.

Viton® und Kalrez® is a registered trademark of DuPont Performance Elastomers.

Lutz Flow Meter HDO500

for non flammable liquids and easily flammable liquids

Non Ex-Version: For neutral liquids, many acids and alkalis mineral oil and cosmetic products, foods, paints and lacquers, etc. ALEX **Ex-Version:** For flammable mineral oil products, easily flammable hydrocarbons and other chemicals in explosion hazardous areas With flange connection **Technical data** Type HD0500 Alu/PPS Type HD0500 SS/PPS Type HD0500 SS/SS Range of measurement: 4 GPM - 100 GPM below 5 cps 4 GPM - 100 GPM 4 GPM - 100 GPM 6 GPM - 100 GPM 6 GPM - 100 GPM 6 GPM - 100 GPM above 5 cps max. 176 °F (140 °F**) max. 176 °F (140 °F**) max. 248 °F (140 °F**) Temperature Viscosity max. 500.000 cps 500,000 cps 500,000 cps 232 psi Operating pressure max. 232 psi 232 psi Accuracy +/- 0.5% of measured quantity +/- 0.5% of measured quantity +/- 0.5% of measured quantity Reproducibility 0.03% 0.03% 0.03% Nominal width DN 50 DN 50 DN 50 Connections: PN 16 PN 16 PN 16 flange LCD display Touch-Screen 2.5x2.5 inch 128x128 mm pixels Display sub-total and total volume can be reset DE, GB, ES, FR, IT, NL, PT, RU Menu language Materials: Aluminium Stainless steel (1.4404) Stainless steel (1.4404) Housing PPS Rotors PPS Stainless steel (1.4401) Stainless steel (1.4435) Stainless steel (1.4404) Stainless steel (1.4404) Shaft Viton[®] (alt. Kalrez^{®*}) Viton[®] (alt. Kalrez^{®*}) Viton[®] (alt. Kalrez^{®*}) Seal Protection class IP 55 IP 55 IP 55 Weight 14.6 lbs. 30 lbs. 30.5 lbs. Order No. Flange Flange Flange 0231-253 0231-251 0231-249 up to 1,000 cps up to 500,000 cps 0231-254 0231-252 0231-250 **Technical data** Type HD0500 Alu/PPS Ex Type HD0500 SS/PPS Ex Type HD0500 SS/SS Ex Type of protection: Operating unit II 2 G Ex ib IIB T4*** II 2 G Ex ib IIB T4*** II 2 G Ex ib IIB T4*** ALEX ALEX ALEX Basic flow meter II 2 G c T4 II 2 G c T4 II 2 G c T4 Order No. Flange Flange Flange

Housing material metal

up to 1,000 cps

up to 500,000 cps

0231-259

0231-260

For large flow volumes up to 100 GPM

Optional: *Additional price seal: Kalrez® Order No. 0230-314, Additional price seal: EPDM Order No. 0211-355 ** in Ex-Version *** Also available in protection class II 2 G Ex IIC T4 Viton® und Kalrez® is a registered trademark of DuPont Performance Elastomers.

0231-257

0231-258

0231-255

0231-256

Combination made to measure

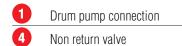
Advantages of the Lutz flow meters:

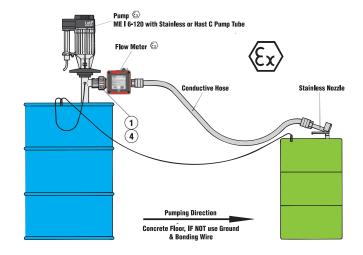
For mounting on drum and container pumps, fittings with screw thread, measuring cell protected from impurities by an integrated strainer, optional non-return valve, integrated control unit, either direct input or presettable delivery rate, large LCD for easy reading, even at a distance, control unit can be rotated in 90° steps in any direction, volume unit simple to set, additional operating mode display, display of the total delivery rate, flow velocity display, optional liquid level function, easy battery replacement.

Application 1

Flow meter with drum pump

The liquid is pumped from one container to another. The explosion proof meter system is installed directly on the drum pump.

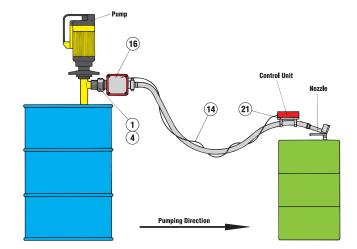




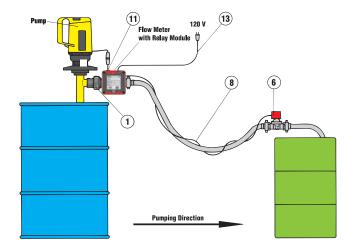
Application 2 Remote control

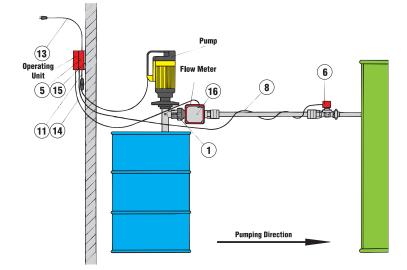
The liquid is pumped from one container to another. The two containers are a long distance apart or in separate rooms. The control unit is secured to the hose at the nozzle. The pulses are transmitted by means of the protective cover through data line to display unit.

1	Drum pump connection
4	Non return valve
21	Data cable
22	Protection cover
26	Hose bracket for control unit



Combination made to measure





Advantages of the Lutz relay module:

Simple, reliable plug connection between the measuring element and the control unit, easily assembled, ready to use immediately, integrated in the meter assembly to save space, simultaneous control of the pump motor and the solenoid valve, system protected by fault detection function.

Application 3 Batch control system with presettable delivery rate and solenoid valve

The liquid is pumped at a preset read amount. Both the pump motor and solenoid valve are activated by the relay module integrated in the batch control system.

Drum pump connection
 Solenoid valve
 Connecting cable main valve
 Connecting cable motor
 Main supply cable relay module

Application 4

Batch control system with presettable amount for remote operation

With the relay/operating unit located away from the transfer station you are able to operate from your control room avoiding operator to be exposed to toxic fumes from liquid being transferred. Also, the most efficient way to operate 2 or more drum pumps when batching multiple liquids in mixing processes. This option will also extend the life of the electronics in the relay and operating unit when used in a corrosive environment.

For hazardous locations:

Items to the left away from hazardous area could alternatively be installed in an Ex. approved conduit.

1	Drum pump connection
5	Relay module
19	Solenoid valve
1	Connecting cable main valve
10	Connecting cable motor
9	Main supply cable relay module
21	Data cable
24	Mounting plate
22	Protection cover

Accessories Lutz Flow Meter Program

for mobile or stationary applications



Connection fittings

				connection minings
Spec	ification		Order-No.	Product detail
Conne PPO/V PPS/V Stainle	pump connection cts the flow meter to a drum and container pump. iton® 1 1/4" IT iton®-FEP 1 1/4" IT ss steel/PTFE 1 1/4"- 1 1/4" IT ss steel/PTFE 1 1/4"- 1 1/2" IT	for ST10, SL10 for LM10, UN10 for VA10 for VA10	0211-130 0211-132 • 0211-211 • 0211-214 •	
Conne PP/PTI Stainle	pump connection cts the flow meter to an eccentric screw pump B70-V or FE 1" OT x 1 1/4" IT ss steel/PTFE 1" OT* x 1 1/4" IT* ss steel/PTFE 1" OT* x 1 1/2" IT*	r HD-E for HDO 250 P for HDO 250 for HDO 250	0211-332 0211-330 0211-331	
Conne PP 1" (Stainle	e nipple cts the flow meter to a pipeline system DT x 1 1/4"AG, for drum pump connection 1" OT x 1 1/ ss steel 1" OT x 1 1/4" OT, for drum pump connection ss steel 1" OT x 1 1/2" OT, for drum pump connection	1" OT x 1 1/4" IT	5000-070 5000-073 0211-340	
Conne PPO/V	d connection cts the flow meter to screw-type flanges or threaded scr iton® 1 1/4" OT iton®-FEP 1 1/4" OT	rew connections. for ST10, SL10 for LM10, UN10	0211-135 0211-136 ●	
Preven PTFE/\ PTFE/\ Stainle	eturn valve ts flow back of the liquid in the hose system. /iton® /iton®-FEP ss steel/PTFE ig pressure: 0.72 psi	for ST10, SL10 for LM10, UN10 for VA10	0211-140 0211-141 • 0372-050 •	

Viton® is a registered trademark of DuPont Performance Elastomers. *OT = Outer BSP / *IT = Inner BSP

• Suitable for the delivery of combustible and easily inflammable liquids (e.g. ethanol, petrol) and for pumping liquids in potentially explosive environments.

for volume preselection Product detail **Specification** Order-No. 5 Relay module RM10 Facilitates volume preselection in combination with the appropriate connection cables. 100-120 V, 50-60 Hz for ST10, SL10, VA10 HD0250, HD0400, HD0500 0230-201 7) Power supply unit NG10 120V Supplies the control unit with power (instead of batteries). This function is already included in relay modules. 100-120 V, 50-60 Hz for ST10, SL10, VA10 HD0250, HD0400, HD0500 0230-230 **Communication module** allows the communication with external control systems, analog output (0-20mA, 4-20mA, 0-10 V), analog output, RS485 interface, alarm output, Digital input (external start/stop) 8 Communication module KM10K (complete version) with cable protective covering for ST10, SL10, VA10, HD0250, HD0400, HD0500 0230-101 9 Power cable relay module 16 ft long 120 V for RM10, NG10 0211-159 10 Connecting cable Motor/Slow 1-way 1.6 ft long 120 V for RM10 0211-158 11 Connecting cable main valve 16 ft long 120 V for RM10 and RM30 0211-157 19 Solenoid valve (Please consult factory)

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

Miscellaneous installation accessories

	Specification		Order-No.	Product detai
21	Data cable			
	Connects the modules in the case			
	of decentralised installation.			
	14-pole, 16 ft long	for ST10, SL10, LM10, UN10, VA10, HD0250, HD0400, HD0500	0230-306 🔴	
				and a second sec
	14-pole, 32 ft long	for ST10, SL10, LM10, UN10, VA10, HD0250, HD0400, HD0500	0230-309 🗢	
		1100230, 1100400, 1100300	0230-309	
22	Protection cover SH10 with 1 da	ta socket		<u> </u>
	Protects the modules in the case			
	of decentralised installation.	for ST10, SL10, LM10, UN10, VA10, HD0250, HD0400, HD0500	0230-350 🗢	
		HD0250, HD0400, HD0500	0230-330	
22	Protection cover SH20 with 2 da	ta socket		
	Protects the modules in the case			
	of decentralised installation.	for ST10, SL10, LM10, UN10, VA10, HD0250, HD0400, HD0500	0230-351 🔵	
	Pulse converter			
		ounted on the basic meter if the distance		
	to the next module is more than 16.5	π		
23	Pulse converter IW10 with 1 dat	a socket		
		for ST10, SL10, VA10,	0000 050	
		HD0250, HD0400, HD0500	0230-352	2
23	Pulse converter IW20 with 2 dat	a socket		
		for ST10, SL10, VA10,	0000 050	
		HD0250, HD0400, HD0500	0230-353	
	All-purpose plate			
4	For wall-mounting or as a			Participant in the
	heat protection plate	for ST10, SL10, LM10, UN10, VA10,		+ 60
		HD0250, HD0400, HD0500	0230-304 🔴	0
25				
	Additional clamp fixing for DIN rails (TS 35) EN 50022	for ST10, SL10, LM10, UN10, VA10, HD0250, HD0400, HD0500	0230-307 🔴	P CON
	. ,			8
	Installation together with all-purpose			
	(all-purpose plate not included in wal	ו הומהעבו אבו)		
26	Hose bracket for control unit			A
-	For decentralised installation			
	of the modules on a hose line.	for ST10, SL10, LM10, UN10, VA10,		
		HD0250, HD0400, HD0500	0230-303 🗢	6
				-

• Suitable for the delivery of combustible and easily inflammable liquids (e.g. ethanol, petrol) and for pumping liquids in potentially explosive environments.

Basic 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 meter, operating unit, relay module, etc.) can be installed in different locations. The data connection between the components is established by data cable and plug connection without awkward and complicated wiring. For data transmission to an external signal processor (e.g. SPS), a communication module is necessary.

A protective cover and a data line are required for the data network.

Product detail	Specification	Order-No.
	Basic meter ST10 (Viton®) PPO/PPS/BaFe/Viton®	0230-500
	Basic meter SL10 (Viton®) PPO/PPS/Viton®	0230-510
	Basic meter LM10 (Viton®-FEP) PPS/LCP/BaFe/Viton®-FEP II 2 G T4	0230-520 🗢
	Basic meter UN10 (Viton®-FEP) PPS/LCP/Viton [®] -FEP II 2 G T4	0230-530 ●
	28 Basic meter VA10 (Viton®-FEP) Stainless steel 1.4571/PTFE/FEP II 2 G T4	0230-540 🗢
	23 Basic meter HC10 (Viton®-FEP) Hastelloy C 2.4610/PTFE/FEP II 2 G T4	0230-550 ●
10 - 0 - 0 - 0	23 Basic meter HDO II 2 G c T4 (Stainless steel/Alu)	on request ●
Viton® is a radiatored trademark of DuPont Pa	With hall effect sensor, 4-20 mA outlet or tri-clamp connection on request	

Viton® is a registered trademark of DuPont Performance Elastomers.

 Suitable for the delivery of combustible and easily inflammable liquids (e.g. ethanol, petrol) and for pumping liquids in potentially explosive environments.

Flow meter planning made easy



Copy – fill in – fax to your nearest Lutz Distributor

Customer No.:	Zipcode/City:
Company:	Country/State:
Name:	Phone/Extension:
Department:	Fax:
P.O.Box/Street:	E-Mail:
1. Which meter execution	Operating conditions: 🛛 Without pre-selection
□ Turbine wheel meter Series TR	□ With pre-selection
□ Nutating disc meter Series TS	If pre-selection, control of:
□ Oval gear meter Series HDO	Pump motor Volt Hz
2. Which medium	□ 2/2 way solenoid valve Volt Hz
Designation:	4. Installation of the meter
Chemical formula:	Mounted on the pump
Concentration:%	□ Fitted in-line systems DN(DIN) DN(ANSI)
Hazardous duty: 🗆 yes 🗆 no	
Specific gravity: lb/ft ³ kg/dm ³	5. Decentral installation
Viscosity: cps mPas cps mPas	□ Handling by PLC
Pumped fluid temperature: degF °C	Control unit installed separately (e.g. control cabinet or room)
Ambient temperature: degF °C	(Distance between control unit and basic meter)
Solid content: 🗌 yes 🗌 no	6. Your desires
Which materials are resistant to the medium according to your own experience?	Here you can describe your cases of application or add remarks:
Safety data sheet available? yes no	
3. Operating conditions	
Flow rate: GPM (US) I/min.	
Operating pressure: ft. or PSIG	
m or bar	
Filling quantitys/batch sizes: gal (US) Liter	□ Documentation □ Offer □ Please call

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