











# Lutz Flow Meter HDO 250

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 above 5 mPas	8 l/min - 70 l/min 3 l/min - 75 l/min	9,5 l/min - 150 l/min 6 l/min - 170 l/min		9,5 l/min - 150 l/min 6 l/min - 170 l/min		9,5 l/min - 150 l/min 6 l/min - 170 l/min	
Temperature	max. 80 °C	max. 80 °C (60 °C**)		max. 80 °C (60 °C**)		max. 120 °C (60 °C**)	
Viscosity max.	1.000 mPas	500.000 mPas		500.000 mPas		500.000 mPas	
Operating pressure max.	10 bar	16 bar		16 bar		16 bar	
Accuracy quantity	below 5 mPas ± 2 % of measured quantity above 5 mPas ± 0.5% of measured quantity	below 5 mPas ± 2 % of measured quantity above 5 mPas ± 0.5% of measured quantity		below 5 mPas ± 2 % of measured quantity above 5 mPas ± 0.5% of measured quantity		below 5 mPas ± 2 % of measured quantity above 5 mPas ± 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-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	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 (1.4404)		Stainless steel (1.4404)		Stainless steel (1.4404)	
Seal	FPM (alt. FEP, EPDM)*	FPM (alt. FFPM, EPDM)*		FPM (alt. FFPM, EPDM)*		FPM (alt. FFPM, 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
<b>Order No.</b>	<b>Thread</b>	<b>Thread</b>	<b>Flange</b>	<b>Thread</b>	<b>Flange</b>	<b>Thread</b>	<b>Flange</b>
<b>up to 1.000 mPas</b>	<b>0231-200</b>	<b>0231-209</b>	<b>0231-210</b>	<b>0231-205</b>	<b>0231-206</b>	<b>0231-201</b>	<b>0231-202</b>
<b>up to 500.000 mPas</b>	<b>-</b>	<b>0231-211</b>	<b>0231-212</b>	<b>0231-207</b>	<b>0231-208</b>	<b>0231-203</b>	<b>0231-204</b>
<b>Technical data</b>		<b>Type HDO 250 Alu/PPS Ex</b>		<b>Type HDO 250 SS/PPS Ex</b>		<b>Type HDO 250 SS/SS Ex</b>	
Type of protection:		II 2G Ex ib IIB T4 Gb*** 		II 2G Ex ib IIB T4 Gb*** 		II 2G Ex ib IIB T4 Gb*** 	
Operating unit		II 2G Ex h IIB T4 Gb 		II 2G Ex h IIB T4 Gb 		II 2G Ex h IIB T4 Gb 	
Basic flow meter		II 2G Ex h IIB T4 Gb 		II 2G Ex h IIB T4 Gb 		II 2G Ex h IIB T4 Gb 	
<b>Order No.</b>	<b>Thread</b>	<b>Flange</b>	<b>Thread</b>	<b>Flange</b>	<b>Thread</b>	<b>Flange</b>	
<b>up to 1.000 mPas</b>	<b>0231-221</b>	<b>0231-222</b>	<b>0231-217</b>	<b>0231-218</b>	<b>0231-213</b>	<b>0231-214</b>	
<b>up to 500.000 mPas</b>	<b>0231-223</b>	<b>0231-224</b>	<b>0231-219</b>	<b>0231-220</b>	<b>0231-215</b>	<b>0231-216</b>	

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 Gb on request.

## Recommended Accessories: Power supply unit NG10\*\*\*

Voltage	220-230 V
Frequency	50-60 Hz
<b>Order No.</b>	<b>0230-230</b>

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