

DR15

Paddle Wheel Flowmeter, Battery Powered

- for low viscosity liquids
- materials: wetted parts made of PP, PVDF and Alloy 59
- 2 calibrated measuring ranges, 10...60 l/min, 20...120 l/min
- 3 additional user defined measuring ranges
- accuracy: $\pm 2,5$ % of full scale
reproducibility < 0,5 % of full scale
- on-site LCD display for flow rate and total volume
- battery powered



Description:

A turbine mounted in the flow tube is rotated by the flowing liquid. The rotary motion is sensed by two reed relays via a magnetic coupling, and transmitted to an electronic in the form of a frequency proportional to the flow. The electronics module calculates the flow rate and the total quantity and operates a transistor contact, which is available to energize a pump or a valve when a programmable total quantity has been counted.

Typical applications:

Model DR15 flow meters and counters are used to monitor, measure and dose low-viscosity liquids such as water, diesel oil, sodium hydroxide solution and the like. Applications are to be found in coolant monitoring, filling processes and in the chemical industry, to mention but a few.

Models:

DR15.PP...	measuring tube made of PP
DR15.PO...	measuring tube made of POM (on request)
DR15.PV...	measuring tube made of PVDF (on request)

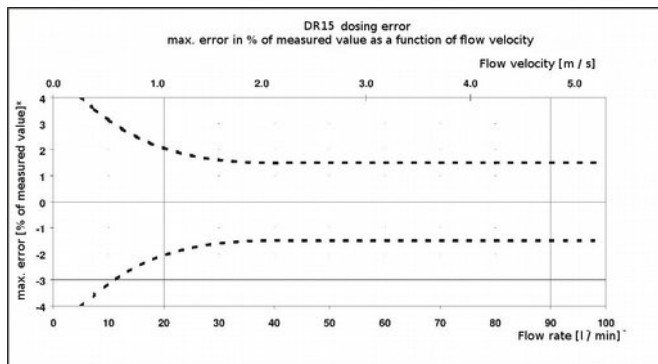
Measuring Ranges:

DR15.x.1...	10...60 l/min
DR15.x.2...	20...120 l/min

Electronic Version:

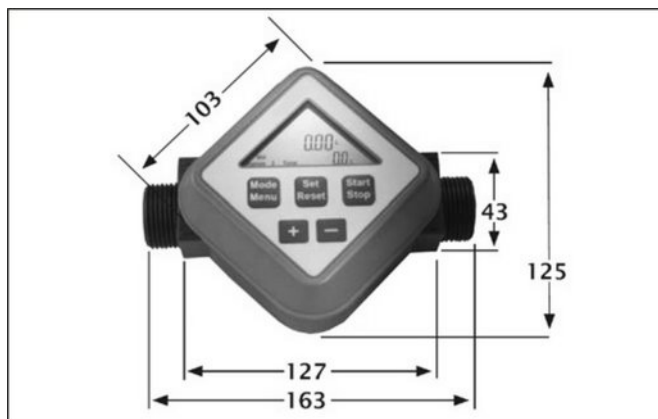
DR15...EB...	battery powered
DR15...0	with LCD-display

Accuracy:



*) Under reference condition (process liquid: water, ambient- and water temperature: 20 °C; with minimum required inlet and outlet pipe sections and matching inside pipe diameters)

Dimensions:



Order Code:

Order number:	DR15.	S.	PP.	1.	EB.	K.	0
Paddle wheel flowmeter, battery powered							
Process connection:	S = G 1 male thread (standard)						
Material:	PP = Polypropylene PO = POM PV = PVDF						
Measuring ranges:	1 = 10-60 l/min 2 = 20-120 l/min						
Supply:	EB = battery						
Electronic version:	0 = with LCD-display						
Options:	0 = without 9 = please specify in plain text						

Other models like: process connection 1" NPT, measuring tube made of POM or PVDF on request.

Technical Data:

max. pressure:	
at 20 °C:	10 bar
at 40 °C:	8 bar (PVDF), 7 bar (POM, PP)
at 60 °C:	6 bar (PVDF), 4 bar (POM), 3 bar (PP)

max. medium-temperature: 60 °C

Process

connection: 1" male, G or NPT
75 cm inlet / outlet distance recommended

Materials:

meas. tube:	POM, PP or PVDF
paddle wheel:	PVDF
pivot:	NiCr23Mo16Al 2.4605 (Alloy 59)
gasket:	FKM

Electronic housing: plastic

Mounting position: horizontal preferred, display turned upwards

Accuracy: ± 2,5 % v. E. for flow rate,
± 1,5 % of set quantity for dosing (<20 l/min: ± 3 %)

Resolution: 0,05 L

Display: LCD, 2 x 6-digit

Operation: foil keyboard with 5 keys

Supply: lithium-battery
type AA, 3,6 V, 2300 mAh

Weight: ca. 300 g