

Measuring device for flow and differential pressure ARImetec®-DX

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Application

The ARImetec®-DX is used for flow and differential pressure measurement in hydraulic systems. It consists of an measurement device with an integrated differential pressure sensor and the hand terminal (PDA) which communicates via Bluetooth with the sensor. This ensures high accuracy of the measurement. The flow is calculated on the basis of the differential pressure signal and the stored valve characteristics in the hand terminal's data bank. These values can be stored, transmitted and analysed by a personal computer (PC).

ARI-valve series in data bank:

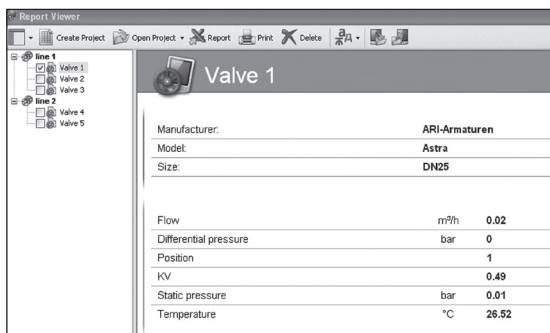
ASTRA®	DN 15 ... DN 400
ASTRA®-Plus	DN 15 ... DN 400
EURO-WED® FTF-14	DN 15 ... DN 200

Note: Measuring of more manufacturers possible.

Features

- Compact differential sensor with bypass
- Wireless communication via Bluetooth
- Delivered hand terminal (PDA with extensive office-software)
- Smartphone capability (compatible Apps on request)
- Optional temperature measurement
- Intergrated valve- and media-data bank
- Manual input of Kv-value for measuring on not stored valves
- Storage of measurements
- Including software for PC-analysis
- Supplied in robust plastic case with accessories

Typ		ARImetec®-DX
Max. Overpressure		25 bar (362 psi)
Max. Differential pressure		10 bar (145 psi)
Differential pressure range		0 ... 10 bar (145 psi)
Temperature range		-30 ... +120 °C (-22 ... +248 °F)
Pressure deviation		max. 0.1 % of full scale
Temperature deviation		max. 0.2 °C (0.36 °F)
Medium temperature (flow measuring)		-5 ... +90 °C (23 ... +194 °F)
Ambient temperature (operation)		0 ... +40 °C (32 ... +104 °F)
Storage temperature		-20 ... +60 °C (-4 ... +140 °F)
Humidity		max. 90 % RH (Relative Humidity)
Power supply	Accumulator capacity	- Sensor device 6600 mAh - Hand terminal (PDA) 1200 mAh
	Operating time	- Sensor device 35 h - Hand terminal 8 h
	Charging time	- Sensor device 6 h - Hand terminal 1,4 h
Dimensions (B x H x T)		- Sensor device 90 x 55 x 170 mm (3.54 x 2.17 x 6.69 inch) - Hand terminal (PDA) 70 x 15 x 120 mm (2.76 x 0.59 x 4.72 inch) (screen-diagonal 90 mm / 3.54 inch)
Weight		- Sensor device 540 g (1190 lb) - Hand terminal (PDA) 120 g (265 lb) - Complete case 2.800 g (6173 lb)
Protection class		- Sensor device IP65
Validity of calibration		12 months
Accessories: (supplied with device)		- Sensor device - Hand terminal (PDA) with software - Sensor device charger - Hand terminal (PDA) charger - USB cable - Measuring hoses (tubing) - Measuring adapter - Set of internal hexagon spanner - CD with analysis software - Operating instruction - Calibration report - Carrying case
Ordering Information:		Order-No.: ARImetec-DX



Report viewer

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1	ARI ARMATUREN		Language:	English	Media:	Wasser								Object:	
2			Pressure units:	bar	Temperature:	20 °C								Object nr.:	
3			Flow units:	m³/h	Date:									Made by:	
4			Instrument:		Serial number:									Balancing method:	
5														Calibration date:	
6															
7	Balancing protocol												Measurement		
8	Valve ID nr	Object	Name/place	Valve Type	Size DN	Dp bar	Flow m³/h	Position Turns	Kv	Dp bar	Flow m³/h	Position Turns	Kv		
9															
10	Valve 1	Building A	Sample	ASTRA	DN 50	0,2	4,5	3	10,3	0,21	bar	4,55	m³/h	3	10,3
11	Valve 2	Building A	Sample	ASTRA	DN 50	0,08	1,6	2	5,1	0,09	bar	1,65	m³/h	2	5,1
12	Valve 3	Building A	Sample	ASTRA	DN 50	0,4	24	6	39,3	0,39	bar	24,5	m³/h	6	39,3
13	Valve 4	Building A	Sample	ASTRA	DN 100	0,25	50	7	96,6	0,26	bar	50,5	m³/h	7	96,6
14	Valve 5	Building A	Sample	ASTRA	DN 100	0,6	25	5	35,7	0,61	bar	25,3	m³/h	5	35,7
15															
16															
17															
18															
19															
20															

Measuring report


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 GERMAN QUALITY VALVES