

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 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:

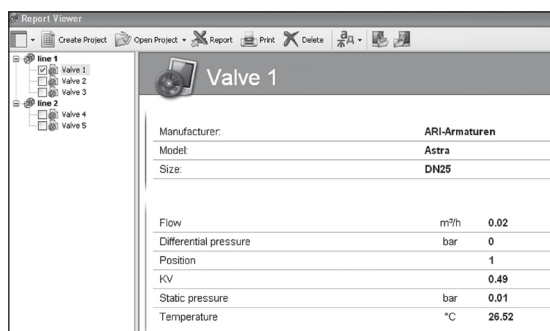
ASTRA®	DN 15 ... DN 400
ASTRA®-Plus	DN 15 ... DN 400
EURO-WEDI® FTF-14	DN 15 ... DN 200

Note: Measuring of more manufacturers possible.

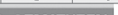
Features

- Compact differential sensor with bypass
- Wireless communication via Bluetooth
- Delivered hand terminal (industry PDA with extensive office-software)
- Smartphone capability (Android)
- Optional temperature measurement
- Integrated 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	bar (psi)	25 bar (362 psi)	
Max. Differential pressure	bar (psi)	10 bar (145 psi)	
Differential pressure range	bar (psi)	0 ... 10 bar (145 psi)	
Surface temperature sensor (PT100)	°C (°F)	-30 ... +120 °C (-22 ... +248 °F)	
Pressure deviation	%	max. 0.1 % of full scale	
Temperature deviation	°C (°F)	max. 0.2 °C (0.36 °F)	
Medium temperature (flow measuring)	°C (°F)	-10 ... +90 °C (14 ... +194 °F)	
Ambient temperature (operation)	°C (°F)	0 ... +40 °C (32 ... +104 °F)	
Storage temperature	°C (°F)	-20 ... +60 °C (-4 ... +140 °F)	
Humidity	%	max. 90 % RH (Relative Humidity)	
Power supply	Accumulator capacity	mAh	- Sensor device 6600 mAh - Hand terminal (industry PDA) 1200 mAh
	Operating time	h	- Sensor device 35 h - Hand terminal 8 h
	Charging time	h	- Sensor device 6 h - Hand terminal 1,4 h
Dimensions (B x H x T)		mm (inch)	- Sensor device 90 x 55 x 170 mm (3.54 x 2.17 x 6.69 inch) - Hand terminal (industry PDA) 70 x 15 x 120 mm (2.76 x 0.59 x 4.72 inch) (screen-diagonal 90 mm / 3.54 inch)
Weight		g (lb)	- Sensor device 540 g (1190 lb) - Hand terminal (industry PDA) 294 g (648 lb) - Complete case 3.000 g (6613 lb)
Protection class		- Sensor device IP65	
ATEX		Using in hazardous areas (ATEX) is not allowed.	
Validity of calibration		12 months	
Accessories: (supplied with device)		- Sensor device - Hand terminal (industry PDA) with software optional: without hand terminal with smartphone app (Android, incl. 2 licenses) - Sensor device charger - Hand terminal (industry PDA) charger - USB cable (industry PDA / PC) - Measuring hoses (tubing) - Measuring adapter - Socket wrench (hexagon) with T handle - CD with analysis software - Operating instruction - Short 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				Language: English			Media: Wasser						Object:				
2				Pressure units: bar			Temperature: 20 °C						Object nr:				
3				Flow units: m³/h			Date:						Made by:				
4							Serial number:						Balancing method:				
5			Instrument:										Calibration date:				
6																	
7	Balancing protocol										Setvalue			Measurement			
8	Valve	Object	Name/Place	Valve	Size	Dp	Flow	Position	Kv	Dp	Flow	Position	Kv				
9	ID nr			Type	DN	bar	m³/h	Turns		bar	m³/h	Turns					
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	1,85	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																	
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Measuring report



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 GERMAN QUALITY VALVES

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