Portable Magnetic Water Meter Test Kit®

Equipped with Magnetic-inductive flow meter.

Realtime
Measuring & Display:

- Water Flow
- Water Volume
- Water Temperature

Specially for: Water Meter Size. 1”

NRW Reduction Equipment [Apparent Water Loss Control]

Item Code: HSS-MWMTK DIN25 (1”)

2024 Ver. 01

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Technical Specification

Electrical Data	
Sensor	Magnetic-inductive flow meter (in Line Sensor), SM8020 IFM Electronic Gmbh
Application	Special feature: Gold-Plated Contacts Media: Conductive Liquids, Water, Hydrous Media Note on Media: Conductivity >= 20µS/cm, Viscosity < 70 mm² (40°C) Medium Temperature -20°C ... 90°C
Measuring Range	Minimum Flow (Q1): 0.2 L/min (12 L/h), (0.012 m³/h) Transitional flow (Q2): 0.2 to 150 L/min (6 to 9000 L/h), (0.006 to 9 m³/h) Maximum flow L/min (Q3): 150 L/min (9000 L/h), (9 m³/h) Accuracy: ± 1,0 % FS
Display Range	-180 to 180 l/min (-10.8 to 10.8 m³/h)
Resolution	0.1 l/min (0.006 m³/h)
Temperature	Ambient temperature -20°C ... 60°C Storage temp -25°C ... 80°C
Protection	IP 65; IP 67
Sensor Tests & Approval	EMC: DIN EN 60947-5-9 Shock resistance: DIN IEC 68-2-27 / 20 g (11ms) Vibration resistance: DIN IEC 68-2-6 ,5 g (10...2000 Hz) MTTF [Years] 114 / UL Approval
Pressure Rating	10 [bar], 1.0 [MPa]
Power	Battery 22VDC, 6 x 3.7 Li-ion Rechargeable Battery Fast Li-ion Charger
Display	Color display 1,44", 128 x 128 pixels / 2 x LED, yellow / Low Battery Indicator
Smart-Phone App	Water Meter Test Kit APP (Android) / Free Professional APP
Mechanical Data	
Sensor Material Pipe & Connections	Stainless steel (1.4408/316); stainless steel (1.4404 / 316L); PC; PBT+PC-GF30 Stainless steel
Connections	G 1 DN25
Main Case Size	Main Unit: 318 mm x 257 mm x 152 mm (12.5 in x 10.1 in x 6 in) [LxWxH]
Weight	~ 6.7 kg
Case	Professional Hard Case NANUK 905 with Air-cell Technology Shoulder Strap

Technical Specification

Storage Recommendation	Store in a clean and dry environment. Ensure Input and Output connection, Connectors are clean, free of debris and corrosion and are undamaged. Ensure the tube inside the device is completely empty and free of any substance.
Cleaning	After each use, drain the tube inside the device from any water. Clean with a soft, moistened cloth. Do not Use: • Abrasive materials or chemicals. • High pressure jets of water If using this equipment in foul water systems or other areas where biological hazards may be present, use an appropriate disinfectant. Please Close Input and Output connection when don't use the device.
Standard Accessories	■ Main Case, G 1 DN25 Connection Equipped with Ball Valve. ■ Li-ion Battery Pack Fast Charger ■ USB Flash Memory (Digital User Guide, Information)
Warranty Duration	1 Year

- As a Portable Water Meter Test Kit uses the SM8020 Magnetic-inductive flow meter sensor without any changes or modifications, therefore, all the specifications, measurement accuracy of the device, standards and calibration are exactly related to this sensor. The device is ready to use with the required settings on the sensor. If the sensor settings are changed by the user, return to the factory settings, or contact us for guidance.
- Always follow local safety regulation in water meter testing.
- Use Water Meter Testing APP for measuring the water meter error, documentation, and reporting.
- At very low temperatures, battery life will be degraded.
- Avoid any mechanical doubts, don't change settings, and don't use a non-standard battery charger.

Made In Canada

DILL-TECH Distributor of Subsurface Detection Systems and Utility Instruments

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Water Meter Testing APP Technical Specification

Operating System Compatibility:	Compatible with Android 10 up to 14 Downloadable on Google Play
Measuring Device Compatibility:	1/2" – 3/4" 1" 2" With the aim of helping to Non-Revenue Water Reduction and Water Saving around the world, this professional android App is free. With this purpose, this APP operate with any other water meter testing device and is designed in general.
Functions	■ Calculate the Water Meter Error (+/-) Manually receiving the measurement values of the water meter and testing device and test volume. ■ Manually receiving information of Water meter and Test Location (GPS Data, Address) ■ Preparing a test report with the ability to add photos of the test steps and explanations. ■ Display the test location on Google Map ■ The user can add his/her information or the desired company as a test operator in the reports
Data Export Formats	.csv format for database and spreadsheet applications .xls / .xlsx format for Microsoft® Excel® PDF format
Report submission method	Email Messenger APPs
Multi-Languages	English, French, Arabic, Turkish, Chinese…

Fluid flow range in flowmeters according to OIML R49 - ISO 4064							
Device	Size)mm/inch(	Q1	Q2	Q3	Q4	Unit	R Q3/Q1
Water Meter	DN25 - 1"	0.07875	0.126	6.3	7.875	m³/h	80
		1.313	2.100	105	131.25	l/min	
1" (0.2 – 150 l/min)							
Water Meter	DN32 - 1 1/4"	0.125	0.2	10	12.5	m³/h	
		2.08	3.33	166.67	131.25	l/min	
1" (0.2 – 150 l/min)						Up to 150 l/min	
Water Meter	DN25 - 1"	0.063	0.1008	6.3	7.875	m³/h	100
		1.050	1.680	105	131.25	l/min	
1" (0.2 – 150 l/min)							
Water Meter	DN32 - 1 1/4"	0.1	0.16	10	12.5	m³/h	
		1.67	2.67	166.67	208.33	l/min	
1" (0.2 – 150 l/min)						Up to 150 l/min	
Water Meter	DN25 - 1"	0.0504	0.08064	6.3	7.875	m³/h	125
		0.840	1.344	105	131.25	l/min	
1" (0.2 – 150 l/min)							
Water Meter	DN32 - 1 1/4"	0.08	0.128	10	12.5	m³/h	
		1.33	2.13	166.67	208.33	l/min	
1" (0.2 – 150 l/min)						Up to 150 l/min	
Water Meter	DN25 - 1"	0.039375	0.063	6.3	7.875	m³/h	160
		0.656	1.050	105	131.25	l/min	
1" (0.2 – 150 l/min)							
Water Meter	DN32 - 1 1/4"	0.0625	0.1	10	12.5	m³/h	
		1.04	1.67	166.67	208.33	l/min	
1" (0.2 – 150 l/min)						Up to 150 l/min	
Water Meter	DN25 - 1"	0.01575	0.0252	6.3	7.875	m³/h	400
		0.263	0.420	105	131.25	l/min	
1" (0.2 – 150 l/min)							
Water Meter	DN32 - 1 1/4"	0.025	0.04	10	12.5	m³/h	
		0.42	0.67	166.67	208.33	l/min	
1" (0.2 – 150 l/min)						Up to 150 l/min	

Testing is not supported in this range

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