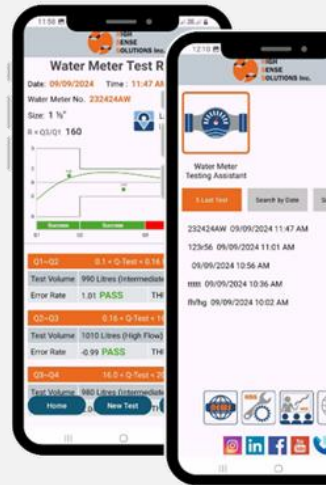


HSS-SENSE PRO[®] 2"

Portable **Ultrasonic** Water Meter Test Kit

Equipped with Ultrasonic inline flow meter.



Suitable for 1 ½", 2", 2 ½", 3" size water meters.

NRW Reduction Equipment [Apparent Water Loss Control]

Item Code: HSS-MWMTK DIN50 (2")

2025 Ver. 02

Electrical Data

Sensor	Ultrasonic flow meter (in Line Sensor)
Application	Special feature: Gold-Plated Contacts Media: ultra-pure water; water; hydrous media Note on Media: hydrous media: for media with >10 % additives, the repeatability is the only available value Medium Temperature -20°C ... 100°C
Measuring Range	Minimum Flow (Q1): 5 L/min (300 L/h), (0.3 m³/h) Transitional flow (Q2): 8 L/min (480 L/h), (0.48 m³/h) Nominal or permanent flow (Q3): 800 L/min (4800 L/h), (48 m³/h) Maximum flow L/min (Q4 or Q Max): 1000 L/min (60000 L/h), (60 m³/h) Accuracy: ± 1,0 % FS Repeatability ± 0,2 %
Display Range	-1200 to 1200 l/min (-73 to 73 m³/h)
Resolution	0.1 l/min (0.002 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 61326-1:2021 Shock resistance: DIN IEC 68-2-27 / 20 g (11ms) Vibration resistance: DIN IEC 68-2-6 ,5 g (10...2000 Hz) MTTF [Years] 160 / UL Approval I033
Pressure Rating	10 [bar], 1.0 [MPa] (Max 16 Bar)
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	HSS Water Meter ASST. APP (Android)

Mechanical Data

Sensor Material	Stainless steel (1.4408/316); stainless steel (1.4404 / 316L); PC; PBT+PC-GF30
Pipe & Connections	Stainless steel
Connections	G 2 DN50
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	~ 10.7 kg
Case	Professional Hard Case NANUK 905 with Air-cell Technology Sholder Strap

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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	▪ HSS-SENSE PRO Main Case, G 2 DN50 Connection Equipped with Ball Valve. ▪ Li-ion Battery Pack Fast Charger ▪ USB Flash Memory (Digital User Guide, Information)
Warranty Duration	1 Year
▪ HSS-SENSE PRO as a Portable Water Meter Test Kit uses the SM2020 Ultrasonic 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	
HIGH SENSE SOLUTIONS Inc. Manufacturer of Underground Detection, NRW Reduction & Mapping Systems	

Operating System Compatibility:	Compatible with Android 10 up to 14 Downloadable on Google Play
Measuring Device Compatibility:	HSS-SENSE PRO 3/4" HSS-SENSE PRO 1" HSS-SENSE PRO 2" With the aim of helping to Non-Revenue Water Reduction and Water Saving around the world, High Sense Solutions Inc. offers this professional android App for 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							5/8
Device	Size	Q1	Q2	Q3	Q4	Unit	R
	(mm/inch)						Q3/Q1
Water Meter	DN40 – 1 1/2"	0.2	0.32	16	20	m³/h	80
		3.333	5.333	266.67	333.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN50 – 2"	0.3125	0.5	25	31.25	m³/h	
		5.208	8.333	416.67	520.83	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN65 – 2 1/2"	0.5	0.8	40	50	m³/h	
		8.33	13.33	666.67	833.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN80 - 3"	0.7875	1.26	63	78.75	m³/h	
		13.125	21	1050	1312.5	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)						Up to 1000 l/min	

Fluid flow range in flowmeters according to OIML R49 - ISO 4064							
Device	Size	Q1	Q2	Q3	Q4	Unit	R
	(mm/inch)						Q3/Q1
Water Meter	DN40 – 1 1/2"	0.16	0.256	16	20	m³/h	100
		2.667	4.267	266.67	333.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN50 – 2"	0.25	0.4	25	31.25	m³/h	
		4.167	6.667	416.67	520.83	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN65 – 2 1/2"	0.4	0.64	40	50	m³/h	
		6.67	10.67	666.67	833.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN80 - 3"	0.63	1.008	63	78.75	m³/h	
		10.5	16.8	1050	1312.5	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)						Up to 1000 l/min	

-  Testing is supported for this range.
-  Testing is not supported for this range.

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Fluid flow range in flowmeters according to OIML R49 - ISO 4064							6/8
Device	Size	Q1	Q2	Q3	Q4	Unit	R
	(mm/inch)						Q3/Q1
Water Meter	DN40 – 1 1/2"	0.128	0.2048	16	20	m³/h	125
		2.133	3.413	266.67	333.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN50 – 2"	0.2	0.32	25	31.25	m³/h	
		3.333	5.333	416.67	520.83	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN65 – 2 1/2"	0.32	0.512	40	50	m³/h	
		5.33	8.53	666.67	833.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN80 - 3"	0.504	0.8064	63	78.75	m³/h	
		8.4	13.44	1050	1312.5	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)						Up to 1000 l/min	

Fluid flow range in flowmeters according to OIML R49 - ISO 4064							
Device	Size	Q1	Q2	Q3	Q4	Unit	R
	(mm/inch)						Q3/Q1
Water Meter	DN40 – 1 1/2"	0.1	0.16	16	20	m³/h	160
		1.667	2.667	266.67	333.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN50 – 2"	0.15625	0.25	25	31.25	m³/h	
		2.604	4.167	416.67	520.83	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN65 – 2 1/2"	0.25	0.4	40	50	m³/h	
		4.17	6.67	666.67	833.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN80 - 3"	0.39375	0.63	63	78.75	m³/h	
		6.5625	10.5	1050	1312.5	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)						Up to 1000 l/min	

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 Testing is not supported for this range.

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Fluid flow range in flowmeters according to OIML R49 - ISO 4064							7/8
Device	Size	Q1	Q2	Q3	Q4	Unit	R
	(mm/inch)						Q3/Q1
Water Meter	DN40 – 1 1/2"	0.08	0.128	16	20	m³/h	200
		1.333	2.133	266.67	333.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN50 – 2"	0.125	0.2	25	31.25	m³/h	
		2.083	3.333	416.67	520.83	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN65 – 2 1/2"	0.2	0.32	40	50	m³/h	
		3.33	5.33	666.67	833.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN80 - 3"	0.315	0.504	63	78.75	m³/h	
		5.25	8.4	1050	1312.5	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)						Up to 1000 l/min	

Fluid flow range in flowmeters according to OIML R49 - ISO 4064							
Device	Size	Q1	Q2	Q3	Q4	Unit	R
	(mm/inch)						Q3/Q1
Water Meter	DN40 – 1 1/2"	0.04	0.064	16	20	m³/h	400
		0.667	1.067	266.67	333.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN50 – 2"	0.0625	0.1	25	31.25	m³/h	
		1.042	1.667	416.67	520.83	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN65 – 2 1/2"	0.1	0.16	40	50	m³/h	
		1.67	2.67	666.67	833.33	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)							
Water Meter	DN80 - 3"	0.1575	0.252	63	78.75	m³/h	
		2.625	4.2	1050	1312.5	l/min	
HSS-SENSE PRO 2" (5 – 1000 l/min)						Up to 1000 l/min	

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