

SandSense SWD-3 Portable Sand Measurement Unit

See What's Happening Inside

SandSense SWD-3 is the world's first patented automatic and portable sand measurement unit featuring unrivalled detection of sand concentration through continuous real time measurement of water content. For the first time, you can get real insight into what's happening in the water well without having to go inside.



SWD-3 Gives You the Full Picture

Can You Detect Sand Problems Early Enough? Up-to-date monitoring techniques reveal a startling fact: sand concentration fluctuates significantly even over **short periods**. Traditional sand testers miss these fluctuations, causing an inaccurate picture.

Save Maintenance Time and Money

Precision measurement is critical to protecting your expensive equipment from sand abrasion. With its triple advantage, the SWD-3 provides protection down to the last grain of sand, guarding your pump impellers and bowls from unnecessary sand damage.

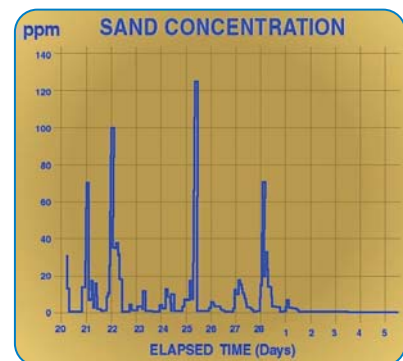
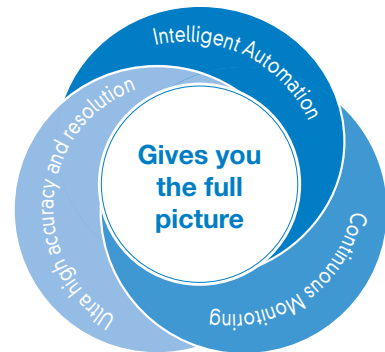
The SWD-3's advanced technology continuously measures sand content in real time, eliminates the need for time-consuming and inaccurate human calculations and measures sand content as low as 0.1 ppm. This provides you with a true picture of your well's condition.

Take Immediate Preventive Measures

- Pump protection implementation
- Real-time sand producing well management
- Well rehabilitation planning
- Sand separator installation: centrifugal sand separators or sand traps

Meet the Highest Regulatory Standards

The SWD-3's continuous and real-time measurements give drillers superb accuracy on acceptance tests. The unique device ensures you meet regulatory requirements on a daily basis. In addition, your customers benefit from irrigation hoses and sprinkler systems free of sand-clogging.





Who is the SWD-3 for?

- Water utilities and municipalities
- Well Drillers
- Well maintenance contractors
- Water quality companies
- Sand separation product manufacturers

User-Friendly Features:

- Portable, stand-alone unit that's easy to transport.
- Plug-and-play operation that increases maintenance efficiency.
- Attaches to a notebook computer for easy data downloading.

SWD-3 Specification

Power requirements	115 VAC, 60 Hz, 20 VA or 220 VAC, 50 Hz, 20 VA
PPM sensing range	0.1 - 100 ppm
Sand separation range	53 microns - 2 mm, (270 - 9 mesh)
Flow range	185 - 317 gal/hr (0.7 - 1.2 m3/hr)
Water inlet	1/4 inch (6.35 mm), 60 - 140 psi (4.3 - 9.6 bars)
Water outlet	1/4 inch (6.35 mm), inlet/outlet pressure differential: 60 - 120 psi (4.3 - 8.3 bars)
Purge outlet	1/4 inch (6.35 mm)
Purge valve pressure	1/4 inch (6.35 mm), 73 psi (5 bars) constant water pressure, min.
Purge command—electrical	24 VAC, 50/60 Hz, 8 W
Water outlet command—electrical	24 VAC, 50/60 Hz, 8 W
Sand Separator	Hardened steel
Auxiliary pump relay contact	Powers optional auxiliary pump contactor. N.O. ; 24 VDC 10 A
External alarm relay contact	N.O. ; 24 VDC 10 A
Backup battery	Lithium, Nata CR2477N (or equivalent)
COM port	COM (RS-232) - data download to a notebook
Dimensions (W x H x D)	14.0 x 22.2 x 10.2 inches (355 x 565 x 260 mm)
Weight	36 lbs (16.35 kg)

All specifications shown in this brochure are subject to change

Hoffmann & Hoffmann is a leading manufacturer of patented monitoring and control solutions for water wells and distribution lines. A truly global company, Hoffmann & Hoffmann has more than 700 installations in the USA and the Middle East.

U.S. Patent No. 6,499,337 & other countries



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