



Sampler & transmitter



EN IEC 60079-XX
ISO 5667-X
DIN EN 38402-XX

II 2G IIB T4

Ord.-No.: 8092306 NEMO 1 S X

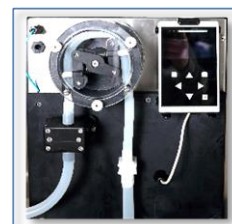
nemo Sampler & Measuring Transmitter

Self-emptying waste water sampler with ATEX approval for measuring and sampling

The self-emptying NEMO is available with different sampling dosing systems and an integrated multi-channel, multi-parameter transmitter with data logger function. For the use of 10 digital (ISM, RS 485) and 2 analogue sensors parallel like e.g. pH, ORP, Cond., Temp, O₂, Level, VOC...

An optional LTE/2G modem allows the wireless communication to the ORI Mcloud, or data transfer via emails/FTP or SMS directly out of hazardous location area ATEX zone 1.

The new removable control panel shows all the information you need at a glance. Easy to operate via the ORI pen. Can be used as a mobile data storage device to download the unit's data within hazardous areas and transfer it to a computer in the office. With integrated Bluetooth and USB connection.



⇒ Different dosing systems



⇒ Different bottle combinations



⇒ Integrated measuring transmitter with data logger





Features

II 2G IIB T4

- **ATEX certified for zone 1 and 2**
- Industrial sample module **with different sampling options** (*time-, volume-, flow-proportional and also numerous event proportional sampling*)
- **Compact and robust**, electric components in a stainless-steel housing
- **Selectable dosing system**
Peristaltic pump (PP), Vacuum pump (V), Hybrid system (H), Ball valve (BV)
- **Different bottle combinations** (*bottle volume, number and material*)
- **Multi-channel + Multi-parameter measuring transmitter and data logger** for Mettler Toledo ISM, EOG, RS485 and mA sensors
- **Removable handheld display**
- **Different sampling start options** (*ready for iSampling 4.0 and SMS start*)

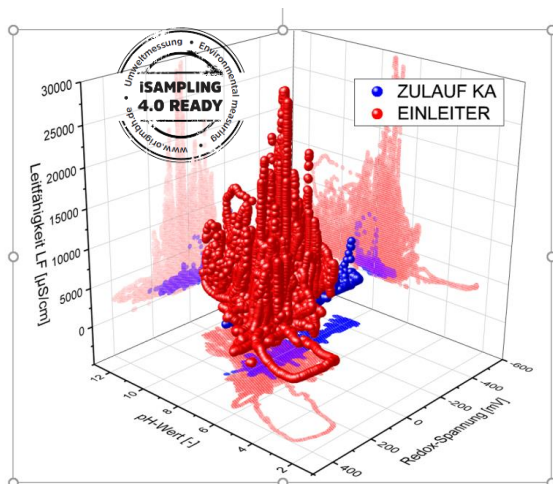
Technical Data: ORI NEMO 1/2 S SE (stationary, self-emptying sampler)

ATEX / IECEx	NEMO 1  II 2 G IIB T4 / NEMO 2  II 3 G IIB T4	
Norm	CE; ATEX; DIN 38402-11; DIN EN ISO 5667-1; ISO 5667-10; EN 16479-1 with a rated head up to 4.5 with a peristaltic pump and 6 m with pressure/vacuum pump	
Degree of protection	IP 65 sample storage room + control unit, IP 54 cooling control, IP 24 cooling unit	
Electrical data	230 V / 50 HZ (NEMO 1 / 2); 110-120 V / 60Hz (NEMO 2)	
Transmitter Inputs/Outputs	4x one wire for digital ISM Sensors Mettler Toledo: pH, conductivity, ORP, O ₂ , Temp. or EOG Sensors: level, Temperature, VOC, RS485 sensors on request. Additional Inputs: 2 x DI, 2 x 4-20 mA, 2 x Namur, 2 x WDM (water detection), 1 x optical, 6 x RS 485 Outputs: 2 x DO (1 x open drain, 1 x 12VDC/500mA) for e.g. alarms	
Data memory	8 Gb data storage	
Dimension (B X H X D) / weight	900 x 1350 x 918 mm	approx. 160 kg - depending on the number of bottles
Dosing systems (possible)	Peristaltic pump (NEMO Z S PP), pressure / vacuum pump (NEMO Z S V), Hybrid system (NEMO Z H); Ball valve (NEMO Z S BV), dosing slider (NEMO Z S DS)	
Sample distribution	Direct distribution or distribution plate	
Wetted material	Suction hose	PVC
	Intake tip	V2A (1.4305/AISI303) optional V4A (1.4571/ASIS 316 Ti)
	Hose coupling	PA
	Peristaltic pump hose	Silicon (<i>various materials on request</i>)
	Dosing glass (<i>if available</i>)	borosilicate glass, inside dosing tube = PVC or silicone
	Water detection system	via conductivity=AISI 316 / capacitive=PVC / optical=glass
	Bottle	HDPE or glass
Bottle combinations	1x40., 4x10, 7x5, 12x2, 24x1 ltr. (<i>others on request</i>), bottle material borosilicate glass	
Suction hose	Ø (di) 9 mm	(<i>special versions are available on request</i>)
	Length 6 m on delivery	(<i>up to max. 20m</i>)
Suction height	Max. 6 m	(<i>others on request</i>)
Dosing volume	depending on the dosing system used (up to 26000 ml with PP)	
Temperature	Operating temperature	0°C – +40°C
	Max. ambient temperature	-20°C - +40°C
Coolant	R134a (only if cooling unit is installed)	

Optional communication module NEMO GSM:

With ATEX approval for zone 1/2

- LTE/2G Modem (EMEA) (CAT1 3,7,20 MHz / Dual-band 900/1800 MHz)
- Wireless communication to the Ori cloud, sending e-mail and SMS
- Program start / stop / status via SMS
- Automatic data transfer via email /FTP and to ORI Mcloud



iSampling 4.0 ready

- Automatic sampling start when measuring limits are exceeded or fall below
- Auto sampling start triggered by confidence figures
- Data transfer to the ORI Mcloud
- Control of the sampling function on the ORI Mcloud

Technical changes and errors excepted.