Sampler & transmitter

nemo

iSAMPLING 4.0 READY

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

II 2G IIB T4

Art.-Nr.: 8092306 NEMO 1 W X

nemo Sampler & Measuring Transmitter

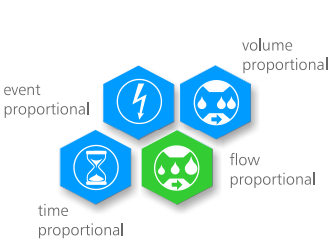
the wall-mountable device with EX approval for sampling and measurements

This flexible, wall-mountable NEMO is a sampler without cooling and can be mounted separately from an existing cooled sample chamber. It 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, RS485) and 2 analogue sensors, in parallel, such as pH, ORP, conductivity, Te, O2, level,...

An optional LTE/2G modem enables wireless communication with the ORI Mcloud, and via email/FTP and SMS directly from the ATEX Zone 1 hazardous area.

The new, removable control panel shows all the information you need at a glance. Easy to operate over the ORI pen. Can be used as mobile data storage to download the data of the device inside 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)
- **Can be installed separately** from an existing cooled sample storage
- **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*)

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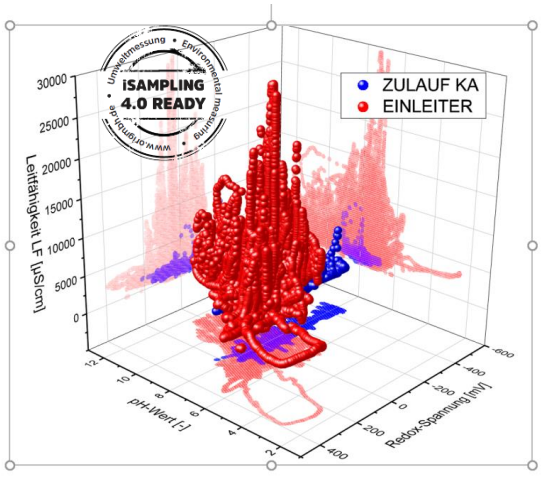
Technical Data:	ORI NEMO 1/2 W (wall mounted sampler)	
ATEX / IECEX	**NEMO 1 ⟨Ex⟩II 2 G IIB T4 / NEMO 2 ⟨Ex⟩II 3 G IIB T4**	
Norm	CE; ATEX; DIN 38402-11; DIN EN ISO 5667-1; ISO 5667-10; EN 16479-1 with a rated head up to 4.5 with a peristaltic pump and 6 m with pressure/vacuum pump	
Degree of protection	IP 65	
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, O2, 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	Data storage 8 Gb memory	
Dimension (B X H X T) / weight	(340 x 430 x 240):	16 kg (PP version)
Dosing systems (possible)	Peristaltic pump (PP), pressure / vacuum pump (V), Hybrid system (H); Ball valve (BV), dosing slider (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 (*various materials on request*)
	Dosing glass (*if available*)	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	Collection barrel, 12 x1.8 ltr. HDPE-bottles (*others on request, e.g. 12x0.5 ltr. Glass*)	
Suction hose	Ø (di) 9 mm	(*special versions are available on request*)
	Length 6 m on delivery	(*up to max. 20m*)
Suction height	Max. 6 m	(*others on request*)
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

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.