Environmental Technology · Lab Equipment
Sampling · Ex – Industry Components
since 1946

BasicEx1 mobil

Order No.: 8092390 - TÜV 09 ATEX 555467

Automatic mobile sampler for **time**-, **volume**-, **event**- and **flow proportional** sampling of fluids. The small and compact design is ideally suited for manhole monitoring. In addition to the proven sampling techniques and the ability to adapt the automatic sampling to your requirements, the BasicEx1 mobil is characterized by an **unrestricted use in potentially explosive atmospheres** (ATEX zone 1 and 2).

Furthermore the sampler is…

ATEX certified

- TÜV certified - **ATEX II 2G IIB T4**. designed for use in hazardous environments (ATEX Zone 1, e.g. sewage drain

Communicative

- **Bluetooth** interface for wireless connection to the **ORI Ex-Logger**.
- **Read-out the data memory** and **firmware update via bluetooth**
- RS 232 interface to connect an **ORI Ex GSM/GPRS Modem** - Type: EMGMS2.2

Team player

- In combination with the wireless ORI Ex-logger for measured parameters as e.g. **pH, redox, temperature, conductivity, O2, level** (optional). Ideal for event start
- Together with the ex-proof designed **multiparameter probe ORI Mlog** (optional), up to 3 sensors parallel for event samplings
- With input ports mA and potential free contact (standard) for the connection of e.g. level-, pressure probe, radar or ultra-sonic. Easy connect with the optional ORI Ex-connection box.
- With optional Ex-**GSM/GPRS Modem** to transfer protocol-, event-, status- or alarm-messages via email or SMS
- **Sampler remote start via SMS** message (requires the optional Ex-GSM/GPRS Modem)

- Battery mode (idle mode for long operating life), optional with power supply pack.
- plug-in system for **quick battery change**
- **Automatic calibration** (switch-off).
- **Easy to maintain -** e.g. change of the pump hose within 2 minutes,
- Hoses **in various materials**

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Technical Data:	BasicEx1 mobil:
ATEX	**CE 0044 ATEX Zeichen II 2G IIB T4** TÜV09 ATEX 555467
Degree of protection	Overall IP 56 Control unit IP 67
Environmental temperature	0°C – 40°C
Electrical data	Lead-Gel Battery 12 V DC / 10 Ah NiMH Batterie 12 V DC / 22 Ah (recommend) Max.power consumption 60 VA Max. current consumption 5 A Fuse 6.2 A
Dimension (Ø x H) in mm	(Ø x H) in mm 410 x 670 (12 bottles) Weight 26 Kg (30 kg) incl. battery 10Ah (22 Ah) and 12 bottles
Sampling method	Peristaltic pump
Liquid presence detector	Non-contact sensor
Compliance with standards	DIN 38402-11 (2009-02); **DIN EN ISO 5667-1 (2007-04)**; EN 16479-1 (2014-09) at a rated head up to 4.5 m
Wetted materials	Suction hose PVC (various materials on request) Pump hose Silicon (various materials on request) Hose coupling PA Inlet pipe PVC (various materials on request Distributor PS (various materials on request) Suction piece V2A (1.4305/AISI303) Water detection contactless (internal pipe PVC) (various materials on request Bottles HDPE or glass
distributor / num. of bottles	Circular distributor / 12 bottles / composite container 10.4/6.4 liters'
Suction hose	Ø (di) 9 mm (special versions are available on request) Max. length 20 m (special versions are available on request)
Suction Height	6 m (industrial application) 4,5 m (according. EN 16479-1 (2014-09))
Dosing Volume	10 ml up to 25000 ml, depending from the chosen bottle capacities
Battery durability	Max. 576 (800) samples at interval (20°C)) 10 Ah (22 Ah) battery, suction height 2.50 m and 5 minutes sampling
Control Unit	Microprocessor with 2 MB EEPROM data memory, ring buffer for event and error, LCD Display, 4 x 20 characters, operated via magnetic pen
I/O Ports (Xe) (increasing safety) useable in areas within a hazardous atmos-phere (zone 1)	Bluetooth Class 2 (2.5 mW / ca. 10 m coverage) 3.5 dBm, UART Logic Level, 300-921.6 k Bd RS 232 Uo:12V; Io: 300mA, 9600Baud Impulse- / event input potential free contact (min. 50ms) (adjustable on- / off-delay 0-120 s) mA 0/4-20mA
Software	Menu-driven, 5 fully parameterizable sample programs, Memory for event / error and log data readable via Bluetooth interface, up to 6 programs can be linked to a sequence, sequences and single programs can be repeated by using loops with adjustable repeats from 1 to ∞ . Software-special functions enabled over via Bluetooth, e.g. BasicEx1 mobil as dosing system with storage container to eliminate odor emissions in canalization systems.
GSM / GPRS	Optional Ex-Modem EMGSM2.2 required (useable within an explosive atmosphere in accordance to the classification)

Presented by: