MIRION TECHNOLOGIES

PREMIUM ANALYSE

DT ionix 3™

Human-Machine Interface

Human-Machine Interface integrated to all of tritium detection channels manufactured by Mirion Technologies (Premium Analyse), either mobile, installed or custom.

FEATURES

- **User-friendly**
  - Intuitive design
  - Colour touchscreen
  - Graphic and numerical display
- **Advanced features**
  - Real-time volumetric activity display
  - Remote data reading and device monitoring via Modbus
  - Data saved on internal memory, can be copied onto USB
- **Connected**
  - Modbus TCP/IP connection
  - 4/20mA analogue outputs
  - 5 dry-contact outputs with customizable alarm thresholds
  - 32 days of data acquisition and export of data via USB

DESCRIPTION

The DT ionix 3 Human-Machine Interface has been designed to handle, manage and analyze digital signals from all of our tritium detectors.

The DT ionix 3 allows for aquisition, digitalization and display of information and data from one or two preamplifier(s).

Due to several 4-20mA analogue inputs and outputs, dry-contacts, relays and 2 Modbus outputs, it can handle all of the signals and carry them over, as well as measurement signals, to a supervision.

DT IONIX 3 | HMI INTERFACE

CHARACTERISTICS

- Weight : 1,8 kg
- Dimensions : 9½ “ drawer (213 mm) x 3U (128,42 mm) x 81 mm
- Power supply : 9 to 36Vdc – 30W
- Mains connector : 110/220V – 50/60Hz – 12VDc – 180W (supplied)
- Humidity : from 5 to 95% rel.
- Temperature of use : from -10 to +40°C *(14 to 104 °F)*
- Axial fan, 8 m^3/h, easily replacable

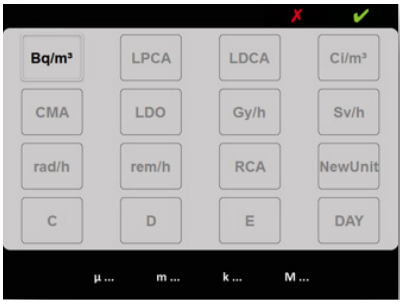
FEATURES

- 4 customizable alarm thresholds
- Digital display of volumetric activity
- Colour touchscreen with intuitive menus
- 32 days of measurement data archived in spreadsheet format
- Data extraction and system update via USB
- Display of volumetric activity with bar chart showing alarm thresholds
- Possibility for manual offset for gamma compensation and external influences
- Graphic plotting of measurements and alarm values from 8 minutes to 8 days
- Adjustment and monitoring of the flow rate with capability to detect low flow
- Capacibility for differential measurement (with reference or gamma compensation detector)
- Choice of volumetric activity among 15 units, with 4 customizable ones (Bq/m^3, RCA, LPCA, Sv/m^3...)
- Light and sound signals when pre-alarm (orange) and alarm (red) thresholds are exceeded, as well as default operation
- Histogram of integrated activities, on 1h, 1 day, 1 month taking the flow in consideration, trigerred locally of from the supervision
- Configuration, visualization of state and testing detector, alarms, inputs/outputs etc via Modbus protocol (2 independent connections)

Delivered with certificate of conformity and user manual

INPUTS/OUTPUTS

- Connection for 1 or 2 high resolution preamplifier (power supply and communication)
- 4 alarm relay contacts NF 1A - 24 V customizable
- 1 state relay contact NF 1A - 24 V
- 2 x 4-20mA analogue inputs customizable
- 2 x 4-20mA analogue outputs customizable
- 4 dry-contact digital inputs
- 5 dry-contact digital outputs (Green, Orange, Red, Sound, On/Off pump)
- 4 output signals 24V/100mA for the managmenet of G/Y/R and sound alarms
- 2 pump control outputs
- Data extraction via front panel USB port
- 2 Modbus / TCP-IP Ethernet connections



CONTACT US

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PREMIUM Analyse
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MIRION TECHNOLOGIES
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