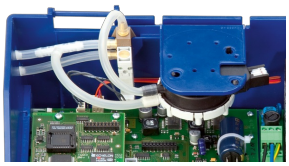
TROX® TECHNIK
The art of handling air

EXPANSION MODULE EM-AUTOZERO



EASYLAB CONTROLLER INCLUDING EM-AUTOZERO

EM-AUTOZERO

AUTOMATIC ZERO POINT ADJUSTMENT FOR TROX UNIVERSAL AND EASYLAB CONTROLLERS

Extension module for long-term stable volume flow measurement with reduced maintenance effort

- Especially recommended for volume flow measurement and control in critical areas
- Automatic recognition and use by the controller
- Expansion module is integrated into the housing of the EASYLAB or TROX UNIVERSAL controller
- Easy retrofitting
- No additional configuration effort

General information

Application

- Extension module for EASYLAB and TROX UNIVERSAL controllers based on the TCU3 controller board
- EM-AUTOZERO, automatic zero point correction for longterm stable volume flow rate measurement and reduced maintenance.
- Annua zero point adjustment manually not required

- Suitable for factory or retrofit installation Areas of application:
- For EASYLAB fume cupboard controllers
- For EASYLAB supply air, exhaust air or pressure regulators
- For TROX UNIVERSAL supply air or exhaust air controllers
- For TROX UNIVERSAL pressure regulators with integrated flow rate measurement (requires additional EM-V extension module)

- In areas with high requirements for measuring and controlling the volume flow, e.g. in laboratories, clean rooms for pharmaceuticals and semiconductor production, operating theatres, intensive care units as well as offices

Special features

- Long-term stable volume flow rate measurement and reduced maintenance
- Automatic zero point correction as soon as the supply voltage is applied
- Cyclic zero point adjustment during operation (every 8 h)
- No additional configuration effort
- Expansion module is automatically recognised by the EASYLAB and TROX UNIVERSAL controller

Parts and characteristics

- Solenoid valve
- Connection cable with two-pin plug for connection to the TCU3 controller board
- Tubes for the connection of the static differential pressure transducer

Construction features

- Dimensions and fixing suitable for EASYLAB and TROX UNIVERSAL controller casing
- The expansion module is inserted into a recess of the holder for the differential pressure transducer (no tools required)
- Can be integrated into existing tubing of the differential pressure sensor (connection with static differential pressure transmitter)
- Plug for easy connection to the controller board TCU3

Commissioning

- When ordering an air terminal unit with EASYLAB or TROX UNIVERSAL controller - specifying order option Z: EMAUTOZERO installed, connected and ready for operation
- For retrofitting: installation and connection required; module is then automatically recognised and zero point adjustment is supported