developing solutions

FISCHER
MESS- UND REGELTECHNIK

Digital Differential Pressure Transmitter

DE90



Modbus

FISCHER® in touch

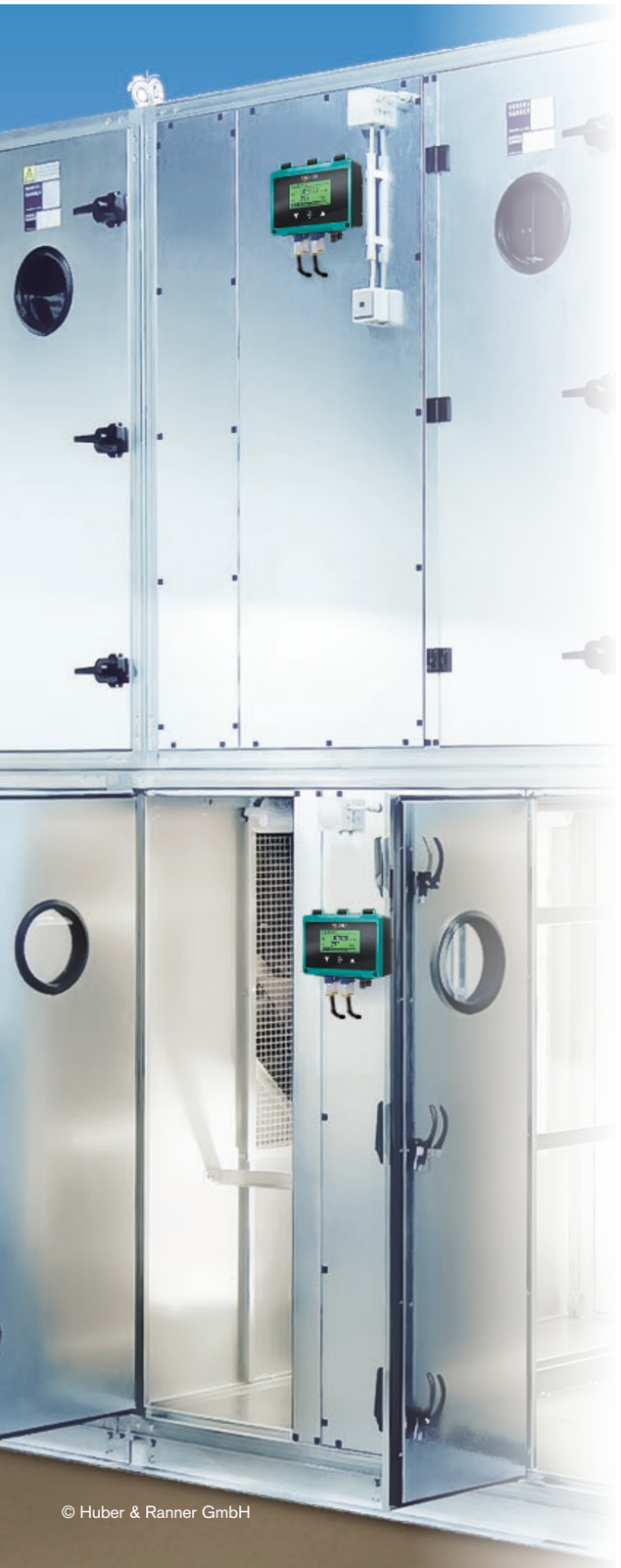
Various configuration options for different process variables



FISCHER PRO-LINE®

The flexible device concept for your industriel applications

FISCHER
MESS- UND REGELTECHNIK


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Benefits at a glance

Multifunctional differential pressure transmitter for air and neutral gases

- Colour-change backlight LC display to facilitate easy detection of operating states
- Reversible signal outputs (current/voltage)
- Additional switching outputs

Flexible and precise

- High measuring accuracy and repeatability of measured values (max. characteristic curve deviation 1 % FS, optional 0.5 % FS)
- Wide measuring range from 25 Pa to 25 kPa
- Modbus RTU digital interface
- Expandable by additional sensors for temperature, relative humidity and air quality

Safety combined with reliability

- Optional use in ATEX zones 2 or 22
- Safety indices for safety-critical applications
- Diversity of characteristic curve functions and parameter-setting facilities

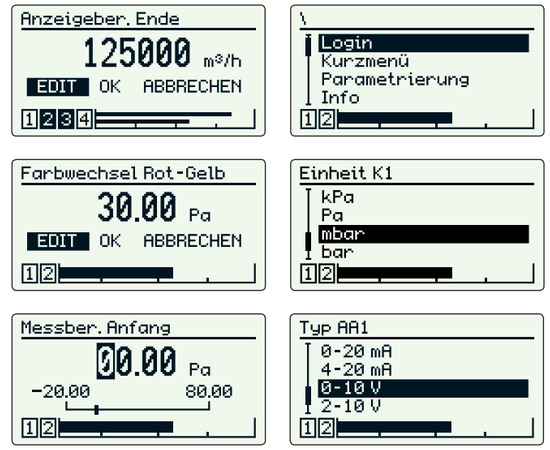
Beneficially applicable

- Multi-channel monitoring of intake-air and exhaust-air filtration systems as well as extraction systems
- Controlled volumetric flow measurement for reducing energy costs
- Dynamic filter monitoring system to ensure early detection of filter blockage
- Individual room precision-control facilities in clean rooms and safety laboratories
- Optional integration into clean-room panels or technical control centres



Large LC display with colour-change indicator

- Up to 4-line display facilities plus bar-graph display
- Excellent readability
- Colour-change backlit display for clear and vivid presentation of operating states



Easy operation and parameterisation

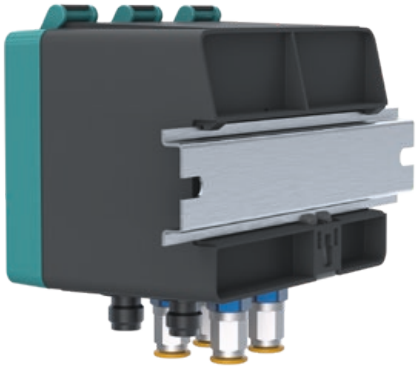
- Sturdily designed, industrial-compliant membrane keypad
- Simple appliance parameterisation with plain text display on the unit itself or using FISCHER in touch® PC software
- Parameter cloning with a simple USB stick



Variable connection concept

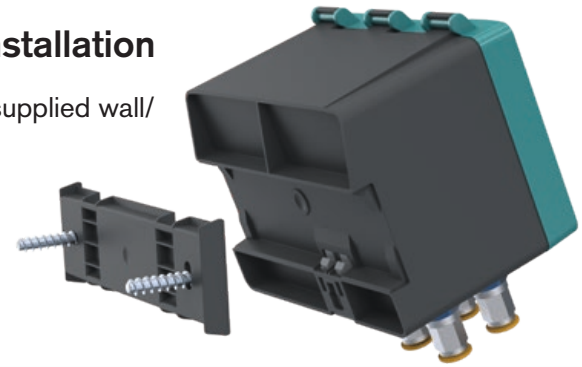
- Electrical connections using industrial standard M12 connectors
- Variety of pressure and sensor connections for optimum adaptation to specific processes





Flexible and fast installation

- System linkage using supplied wall/ top-hat rail adapter



Technical data

Input parameters

- Differential pressure, under/ over-pressure measurement of neutral gaseous media
- Measuring ranges/unidirectional 0…25 Pa to 0…25 kPa
- Measuring ranges/bidirectional ±25 Pa to ±25 kPa
- Long-term stable piezo-resistive measuring principle
- Reversible switching facilities between all pressure units in common use

Output parameters

- Reversible output signals 0…20 mA, 4…20 mA, 0…10 V
- Up to 4 potential-free semi-conductor switches (MOSFET) 3…32 V AC/DC, 0.25 A, 8 W/8 VA

Measuring accuracy

- Characteristic curve deviation 1 % FS, optional 0.5 % FS (non-linearity and hysteresis)

Interfaces

- Electrical connection via circular connector M12 (4-, 5- and 8-pole)
- I²C interface with range extender for linkage up to external (remote) sensor system, e.g. temperature/ relative humidity
- Optional digital interface Modbus RTU
- USB-OTG interface for parameterisation and firmware updates

Process connections

- Aluminium screw coupling for 6/4 mm and 8/6 mm hose
- Pneumatic plug connectors for 6/4 mm and 8/6 mm hard hose
- Cutting-ring screw coupling connection

Display and user interface

- Whole diversity of parameter-setting options for optimum adaptation of appliance to respective processes or uses
- High-resolution display with RGB backlighting and parameterisable colour-change facilities

Certificates and approvals

- Optional ATEX zone 2 or 22
- Safety data for safety-critical applications

Menu languages

- Several menu languages available

www.fischermesstechnik.de

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