Technical Specifications

NETZSCH
TAURUS INSTRUMENTS

TRDA – Smoke Density Test Device

Measurement Method: light measuring system for testing smoke development (transmittance in % and optical density) in accordance with DIN 50055

- Single Board Computer with upgradeable firmware
- Display: 7" 800 x 480 wide color touchscreen
- SBC software, Compact 2013 embedded
- 1 analog output: optionally 0 V – 1 V to 0 – 10 V, linear
- 1 analog output: optionally 0 V – 1 V to 0 – 10 V, logarithmic, adjustable functions
- Interfaces: 1x RS232, 2x USB 2.0, 1x RS485
- Integration time selectable
- Display mode selectable: transmission and/or optical density
- Linear amplifier for light signal
- 5-pole DIN socket for connection to the measuring light receiver
- 4-pole DIN socket for connection to the measuring light emitter
- 19" desktop rack 4HE, 42TE
- Voltage supply for measuring light receiver
- Current-stabilized power unit, 20 W, for measuring light emitter
- Power supply: 110 VAC – 230 VAC, 50/60 Hz
- 1 Manual, English

RDE 02 – Measuring Light Receiver

- Silicon photo receiver
- Tempered, heat-protected optics
- Spectral filter for simulation of CIE – sensitivity distribution
- Measuring light amplifier with adjustable amplification
- 5-pole DIN socket, RS485 serial interface
- Dimensions: L = 190 mm length, Ø = 40 mm
- Aluminum housing, black anodized
- Connecting cable, 5.0 m

RDG 02 – Measuring Light Emitter

- Halogen point light source 10 W, 2900 K color temperature
- Tempered, heat-protected optics
- Beam diameter of 22 mm to 500 mm, d/f = 0.0375
- 4-pole DIN socket for power supply (constant current from the instrument)
- Dimensions: L = 190 mm length, Ø = 40 mm
- Aluminum housing, black anodized
- Connecting cable, 5.0 m

Options

- Flange with connection for air purge
- Measurement bracket for pipe installation
- Prefabricated connection cable, customized lengths
- Filter set, 6 filters, carry case, positioning reticle
- Calibration certificate (German, PTB)
- USB adapter for direct connection of the measuring light receiver to a PC