Technical Specifications

NETZSCH

TRDL – Smoke Density Test Device

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

- Single Board Computer with upgradeable firmware
- Display: 7" 800 x 480 wide color touchscreen
- SBC software, Compact 2013 embedded
- 1 analog output: 0 V – 1 V, optional 0 – 10 V, logarithmic, adjustable functions
- Interfaces: 1x RS232, 2x USB 2.0
- 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
- Voltage supply for laser
- Power supply: 110 VAC – 230 VAC, 50/60 Hz
- 1 manual, English

RDEL 02 – Measuring Light Receiver

- 2x silicon photo receiver
- Tempered, heat-protected optics
- Beam splitter for reference and signal beam
- 2x measuring light amplifier with adjustable amplification
- 4-pole lemo socket, RS485 serial interface
- Dimensions: L = 180 mm, Ø = 40 mm
- Aluminum housing, black anodized
- Connecting cable, 5.0 m

RDGL 02 – Measuring Light Emitter

- Helium Neon Laser, wavelength 632.8 nm, performance 0.5 mW,
- Beam diameter 0.49 mm, divergence 1.75 mrad
- High-voltage-supply for laser
- 2-pole socket for power supply
- Dimensions: L = 245 mm, 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, 2 filters, carry case
- Calibration certificate (German, PTB)
- USB adapter for direct connection of the measuring light receiver to a PC
- Data acquisition and graphing software

NGB · 1221 · Technical specifications are subject to change.