

Spectroscopic specifications

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|----------------------------|--|
| Spectral range | 1450 – 2450 nm |
| Spectral resolution | 1 % of wavelength, e.g. 15 nm at 1500 nm |

Optical Components

| | |
|--------------------|---|
| Detector | 256 pixel PbS line array detector |
| Lamp Module | 6 Tungsten halogen lamps Lifetime > 100.000 scans Replaceable by user |

Physical specifications

| | |
|-------------------|--|
| Dimensions | 152 mm x 84 mm x 42mm |
| Weight | 570 g |
| IP class | IP65 dust- and waterproof (splash and jet water) |

Environmental conditions

| | |
|--------------------------------------|---|
| Operating temperature | 0 °C – 40 °C 0 °C – 30°C for charging |
| Storage temperature | -20 °C – 60 °C |
| Air humidity (non-condensing) | 20 % – 80 % (operation) / 20 % – 90 % (storage). |
| Height above sea level | ≤2000 m |
| Type of use | Indoor and outdoor (operation), indoor (charging) |

trinamiX NIR Spectroscopy Solution

Model SYS-IR-R-P

trinamiX

A brand of
BASF – We create chemistry

Electrical specifications

| | |
|---|--|
| Power Input (for charging) | USB PD with 15 VDC, max. 2.75 A via USB type C connector |
| USB-Connection (for stationary use) | USB 2.0 communication via USB Type C connector |
| Wireless connection (for handheld use) | Wireless low energy via integrated antenna |

Battery

| | |
|---------------------------------|---|
| Type | Rechargeable lithium-ion battery |
| Model | Friwo FB3S1P18650-26 |
| Nominal voltage | 11.1 V |
| Nominal capacity | 2600 mAh |
| Charging current | 1300 mA |
| Transport classification | UN class: 9 UN number: 3480, Lithium-Ion Battery Energy of battery: <100 Wh |

Radio Frequency Module

The device contains the following radio frequency (RF) module:

| | |
|--------------------------|---|
| Type | Würth Proteus-I AMB2621 / 2608011024000 |
| Frequency range | 2.44 GHz |
| Max. output power | Typ. -2 dBm, max. 0 dBm |

