UIT GmbH Dresden offers automatic meteorological monitoring stations. The core of this station is the approved data logger LogTrans 16-GPRS. The used meteorological sensors were provided by renowned suppliers. Typically the following parameters were monitored by a meteorological station.

**Parameters**

- Air temperature, humidity
- Wind speed, wind direction
- Global irradiance, atmospheric pressure
- Precipitation,
- Option: soil temperature, soil moisture, suction power in soil

**Equipment**

- The configuration will be done customized and according to the project specifications, respective.
- GPRS/ GSM – radio techniques is also available.
### Data Logger LogTrans 16-GPRS

**Data logger LogTrans 16 mounted in field housing**
- 16 inputs; option: counter inputs
- 16 bit resolution
- 4 counter channels

**Field housing:**
- Input socket for sensors, integrated accumulator for power supply of data logger and sensors, respective

Technical data see data sheet LogTrans 16

### Humidity/ Temperature Sensor

**Humidity/ temperature sensor** KPC 1/6-ME with the following specification:
- **Humidity:**
  - Measuring range: 0 … 100 % r.H.
  - Tolerance (MB 5 ... 95 % r.H., 10...40°C): ± 2 % r.H.
- **Sensor:**
  - Sensor (according DIN IEC 751): PT100 1/3 DIN
  - Measuring range: -30 ...+70 °C
  - Tolerance: ± 0.2 K

### Wind Speed

**Wind speed sensor** (Anemometer) A 100L2 with the following specification:
- Start-up value: 0.25 m/s
- Measuring tolerance: 1% (± 0.1 m/s)
- Capacity: 75 m/s
- Linearity: 2%
- Temperature range: -30 ... + 55 °C
- Rotor made of ABS-plastics
- Output: 0... 2.5 V; option: counter output

### Global Irradiance

**Global Irradiance** incl. measuring transducer:
- Output: 0 … 5 VDC (characteristic curve/ meteorological application)
- Measuring range 0 ... 1300 W/m²
- Spectral sensitivity: 400 nm … 1.100 nm
- Working temperature: -20 ... +6 °C
- Cosine correction: f2 < 3 %
- Linearity: < 1%
- Absolute error: < 10%

### Precipitation

**Rain gauge** (according to WMO-recommendation) with the following specification:
- Funnel and housing made of stainless aluminium alloy
- Area: 200 cm²
- Resolution: 0,1 mm per tilt
- Output: Magnetic reed switch (N.O.)
- Without or with heating, according to embodiment

Modifications contributing to technical progress are subject to change without notice.