



## FS6001

---

### Weather station, active output (0-10 V)

Measuring size: temperature, rel. humidity, brightness, precipitation, wind speed, twilight

Output: 0-10 V

Highlights: installation: niro-mounting bow for mast or wall fastening



### Description

The weather station FS6001 measures the parameters wind speed, precipitation (yes/no), brightness (east/south/west), temperature, humidity as well as twilight depending on the version. The measured values will be transformed in an analogue output signal and might be used for the control of external instruments and/or the acquisition of analogue measuring data. The brightness is detected by three independent photodiodes which are arranged in 90°-segments (east/south/west), each segment has his own output signal 0-10 V. They are linear to the brightness. To avoid condensation the weather station is equipped with an electrical controlled heater. In addition it has a serielle interface (RS 422/485) and a DCF77-receiver for time/date. The compact construction allows a simple and easy mounting. All exterior parts are stainless, made of high-quality synthetic material. The weather station combines perfectly the sensors for the 5 most important parameters, necessary for the control and monitoring in the field of building control technology, household technology, Venetian- and sun- blind regulation as well as green house control.



## Technical Specifications

Rain (yes)	0 V
Rain (no)	10 V
Measurement range wind speed	0-40 m/s, resolution 0,1 m/s
Measurement range temp.	-20...+60°C
Measurement range r.H.	0-100% r.H.
Measurement range brightness	Brightness East / South / West: each 0-100 kLux, Twilight: 0-250 Lux
Measurement range precipitation	yes/no
Accuracy	±2 K, ±3% r.H.
Sensor	Temperature: Pt100 1/3 DIN (DIN IEC 751), Precipitation: infrared light, Wind speed: reed-contact, Brightness: photodiode, Rel. humidity: capacitive humidity sensor
Supply voltage	16...28 V DC or 16...24 V AC
Current consumption	with heater: max. 250 mA, without heater: max. 150 mA
Analogue output	0-10 V
Electrical connection	PG cable clamb with 10 m LiYCY (PVC control cable, screened, UV resistant, 16x0,14 mm²) (included)
Housing	polycarbonate
Weight	1500 g
Protection type	IP54
Working temperature	-40...+60°C
Installation	niro-mounting bow for mast or wall fastening
Approvals	CE, EAC, RoHS

## Variants

Article Number	
Description	Output
<b>FS6001-U-B1H1R1T1W2</b>	
Precipitation: yes/no, Brightness: 0-150 kLux, Twilight: 0-250 Lux, Wind speed: 1-40 m/s, Temperature: -20...+60°C, Humidity: 0-100% r.H.	0-10 V
<b>FS6001-U-B1R1W2</b>	
Precipitation: yes/no, Brightness: 0-150 kLux, Twilight: 0-250 Lux, Wind speed: 1-40 m/s,	0-10 V



## Accessories

---

ZM/O

Meteorology accessories



---

FS6901

Stand with mast tube





## Dimensional Drawing

