S+S REGELTECHNIK

Multifunctional outside radio sensor for humidity, temperature and light intensity, with solar cell
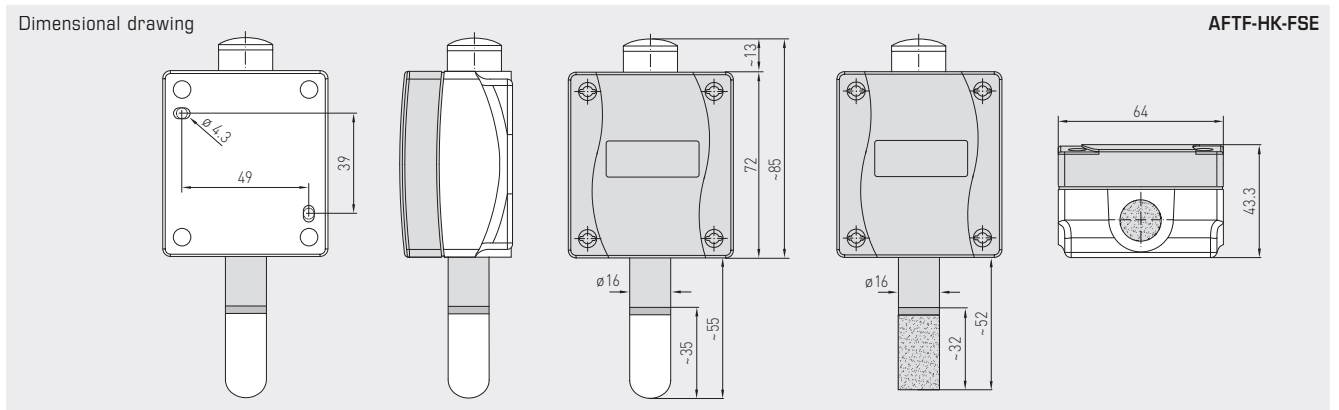
The multifunctional outside sensor **KYMASGARD® AFTF-HK-FSE** is a maintenance-free radio transmitter without battery for on-wall installation. Energy is generated by converting outdoor light into electric energy by means of a solar generator. It is used to detect the outside temperature, outdoor humidity and outdoor light intensity and to transmit the measurands via radio signal to radio actuators and radio receivers/gateways.

AFTF-HK-FSE

TECHNICAL DATA

Operation:	Energy generation by solar cell, batteryless, maintenance-free
Radio technology:	EnOcean protocol, modulation ASK, 868 MHz, transmission power max. 10 mW, telegram type 4BS
Channels:	1 temperature, 1 humidity, 1 light intensity
Radio transmitter module:	EnOcean Dolphin
Measurand acquisition:	adjustable, every 1s / 10s / 100s
Transmission interval:	adjustable, typically every 100 seconds, or at any measuring value change, status telegram approximately every 16 minutes
Range of coverage:	Indoors typically 30 - 100 m, outdoors up to 300 m
HUMIDITY	
Operating range, humidity:	0...100 % RH
Deviation in humidity:	typically **± 2.0** % (20...80 % RH) at +25 °C, otherwise ± 3.0 %
TEMPERATURE	
Operating range, temperature:	−20...+60 °C
Deviation in temperature:	typically ± 0.2 K at +25 °C
LIGHT INTENSITY	
Light intensity operating range:	**Multi-range switching** 0...2000 Lux / 0...60 kLux
Deviation in light intensity:	typically < 5 % of final value
Housing:	Plastic, UV-resistant, polyamide material, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), traffic white colour (similar to RAL 9016), housing cover is transparent!
Housing dimensions:	72 x 64 x 43.3 mm (Tyr 1)
Protective tube:	**made of stainless steel V2A** (1.4301), Ø = 16 mm, NL = 55 mm
Sensor protection:	**plastic** sinter filter, Ø 16 mm, L = 35 mm, exchangeable (optional **metal** sinter filter, Ø 16 mm, L = 32 mm)
Ambient temperature:	−25...+60 °C
Storage temperature:	−25...+60 °C
Permitted humidity:	0...90 % RH, non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	**IP 65** (according to EN 60 529) Housing tested, TÜV SÜD, Report No. 713139052 (Tyr 1)
Standards:	CE conformity according to EMC Directive 2014 / 30 / EU and according to R&TTE Directive 2014 / 53 / EU

SF-M
Metal sinter filter
(optional)

Dimensional drawing

AFTF-HK-FSE

KYMASGARD® AFTF-HK-FSE Outside radio sensor for humidity, temperature and light intensity

Type / WG02	Channels	Measuring ranges			Item no.	Price
		Temperature	Humidity	Light intensity		
AFTF-HK-FSE				(switchable)		
AFTF-HK-FSE	3	−20...+60 °C	0...100 % RH	0...2000 Lux / 0...60 kLux	1801-1140-1000-000	**275,66 €**
Compatibility		For an overview, see the start of the chapter				