

Order no.	Packing unit	PS
 Instabus KNX/EIB weather station Standard		
2150 04	1	06

Product family: Input
Product type: Weather station Standard
 The weather station Standard is used to measure and evaluate weather data (wind speed, precipitation, twilight, temperature and brightness). It is installed in the outdoor area of buildings, preferable in the roof area. The weather station requires an additional power supply, e.g. power supplies **1296 00** or **1024 00**.

- Temperature sensor for measuring the outside temperature.
- Wind sensor (thermal) for determining the wind speed.
- Twilight sensor for measuring the brightness in the twilight range.
- Three brightness sensors offset by 90° determine the brightness in daylight and sunshine, direction-dependent.
- Rain sensor for detecting precipitation.
- Two limits with an adjustable hysteresis per sensor (except rain sensor) can be parameterised.
- A teach-in function enables the application of a current measured value as a limit. This can, for example, be triggered by pressing an external button.
- All limit objects have a parameterisable switch-on and switch-off delay.
- 6 logic gates (AND, AND with return, OR, Exclusive OR, NAND, NOR) with up to 4 inputs for external and internal 1 bit values.
- 4 blocking elements for blocking functions or manual operation.
- Cyclical transmission in case of a value change.

Power supply: AC/DC 24 V SELV
 Power consumption: 7 W
 Temperature range: -20 °C to +55 °C
 Wind speed: 0 to 40 m/s
 Brightness: 1,000 to 110,000 lux
 Twilight: 0 to 674 lux
 Precipitation: Yes/No (binary)
 Protection type: IP 44

Power supply 1024 00 → Page 358.

Power supply 1296 00 → Page 275.

Master attachment 0848 00 → Page 233.

Order no.	Packing unit	PS
 Instabus KNX/EIB weather station Comfort		
1010 00	1	26

Product family: Input
Product type: Analogue input, 4-gang
 The weather station is used for registering and forwarding climatic data and events. Up to four freely combinable analogue measurement-value receivers and a combination sensor **1025 00** can be connected. Two internal limit values can be defined per measurement-value receiver, and when these are exceeded/fallen short of, configurable actions run.

The weather station requires the power supply **1024 00** for supply. The following signals can be evaluated (can be set for each input with software):

Current signals: 0 – 20 mA
 4 – 20 mA (with line-break monitoring)
 Voltage signals: 0 – 1 V
 0 – 10 V

- Evaluation of the DCF77 signal from the combination sensor **1025 00**
- "Astro" function for determining the position of the sun (azimuth and elevation) for sun-position-dependant blind and shutter control, especially the control of the slat angle of blinds (DCF77 signal required).
- Linking controller (logic) for more flexible planning of the (limit dependant) actions (also usable externally), e.g. shading individual facade segments possible.
- User can make changes to the limit value objects, e.g. via SmartSensor, info display 2, info terminal or other signal transmitters.
- Cyclical monitoring of the combination sensor.
- On failure of communication with the combination sensor, protective measures can be introduced, e.g. raising the blinds.
- Selective shading of the facade (max. 4 facades) with setting of the basic brightness, orientation of facade, the aperture angle to the sun (pre-configured).
- Objects for basic brightness and aperture angle are present. Changes of the objects through external value transmitters possible, e.g. SmartSensor, info display 2, info terminal etc.
- Programming of the weather station via a plug-in for ETS 2 from version 1.2a and higher.

Number of inputs: 4
 Ambient temperature: -5 °C to +45 °C
 Protection type: IP 20
 Dimensions: DRA device, 4 depth modules

Power supply 1024 00 → Page 358.

Combination sensor with DCF77 receiver 1025 00 → Page 360.

Dimming sensor 0 – 10 V 0572 00 → Page 410.

Brightness sensor 0 – 10 V 0576 00 → Page 410.

Temperature sensor 0 – 10 V 0577 00 → Page 410.

Rain sensor 0/10 V 0579 00 → Page 412.

Wind sensor 0 – 10 V with heating mechanism 0580 00 → Page 411.

Instabus connection and branch terminal 0595 00 → Page 377.