

## SIGNAL TRANSDUCER TYPE EKO 22 CN



normal in black

Signal-transducer EKO 22CN is a waterproof easy-to-mount, accurate cost-effective signal transducer with loop powered two wire 4..20 mA current outputs, available for and a big choice of input signals and sensors:

- wind speed (type W)
- wind direction (type D)
- mV inputs (for eg solarimeter, pyranometer) (type MV)
- Pt100 input (type PT)
- Volt inputs (type V)
- Frequency inputs (type F)
- Differential input (e.g. Load cell, pressure sensor) (type DIF)
- Reed contact frequency (type R)

The output current is standard 4...20 mA , two wire (loop-powered) system, optional with voltage output.

The Industry Standard output currents are highly immune to electromagnetic fields over large cable distances.

The transducer is standard built in a waterproof cable connector housing, with **two functions**: cable connector for cable extension (from the sensor) and signal transducer in one waterproof system, which can be mounted close to the sensors (e.g. at the top of the meteo mast) or at "ground" level.

The transducer can be supplied including sensors, mounting bracket, cable, power supply, mast, etc.

### APPLICATIONS:

Measure and control systems for e.g.: energy management, building automation, wind energy, meteorology, environmental technology, PC instrumentation, datalogging, PLC control, etc.

### SPECIFICATIONS:

input	: available types W,D,MV,PT,V,F,DIF,R (specify ranges at order if required)
output	: 4...20 mA, 2 wire system (on request special version with voltage output possible)
range wind speed (type W)	: 0 - 50 m/s <sup>1)</sup>
range wind dir.(type D)	: 0 – appr 356 degr. with DIR 86; 0 – appr 354 degr. with DIR21
power supply	: 8..36 V DC (serial in current loop; one power supply required)
accuracy	: Meets the requirements of WMO and IEA <sup>1)</sup>
- wind speed	: typ. 0.2 m/s (V > 1 m/s)
- wind dir.	: < 5 degr. (using windvane type DIR 86)
input/output	: overvoltage protected (solid state)
housing	: nylon IP68 waterproof cable connector L=105, dia=38 mm (or DIN rail cabinet on request)
operating temp range	: - 40 to + 85 C
humidity	: up to 100 % W.C.

### OPTIONS:

* anemometer	: refer to separate datasheets for anemometer MAX 40+
* windvane	: type DIR 86 or DIR 21 or special R.M. YOUNG "propvane"
* cable	: twisted pairs shielded cable (specify required cable length)
* power supply	: professional AC/DC adaptor type FW6201 (adjustable:10-25 V DC)
* power filter	: "adaptor"-type LF300 (recommended in industrial environments)
* sensor mounting arm	: for mounting windvane DIR 86 and anemometer MAX 40
* wind-alarm unit	: type 252-PBB (setpoint with adjustable switch level and delay)
* read-out units (panel mounting)	: - analog:DIN 72*72 mm meters (0..30 m/s and 0...360 degr) <sup>1)</sup> - digital:loop powered type 1000 (0..50 m/s and 0...360 degr) <sup>1)</sup>
* also available	: isolation amplifiers, dataloggers, recorders, PLC's, etc

<sup>1)</sup> WMO: The World Meteorological Organisation; IEA:The International Energy Agency