

## **WIND-TRANSDUCER TYPE EKO 2 CN**

Wind-transducer EKO 2CN is an accurate cost-effective signal transducer with current outputs for wind speed and wind direction sensors. The output current is standard 4...20 mA (two wire system). Other output values should be specified at order. The Industry Standard output currents are highly immune to electromagnetic fields over large cable distances.

The transducer is standard built-in a small DIN rail cabinet. Optional is available an extra waterproof housing, which can be mounted close to the wind-sensors (at the top of the mast) or at "ground" level. The instrument can be supplied including windsensors, 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, etc.

### **SPECIFICATIONS:**

output	: 4...20 mA, double 2 wire system (2 twisted pairs) 1)
range wind speed	: 0 - 50 m/s 1)
range wind dir.	: 0 - 357 degr. with DIR 86; 0 - 352 degr. with NRG 200P
power supply	: 10..30 V DC (serial in current loop; one power supply required)
accuracy	: Meets the requirements of WMO and IEA 2)
- 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)
cabinet	: DIN rail cabinet (95*90*25 mm)
oper.temp range	: - 25 to + 65 C
humidity	: up to 100 % W.C. (if placed in optional waterproof cabinet)

### **OPTIONS:**

* anemometer	: refer to separate datasheets for anemometer (MAX 40)
* windvane	: type DIR 86 or NRG 200P or special R.M. YOUNG "propvane"
* cable	: 3 twisted pairs, shielded cable type P3MS; specify cable length
* extra cabinet	: waterproof IP55; dimensions 105*105*65 mm
* power supply	: professional AC/DC adaptor type FW6201 (adjustable:10-25 V DC)
* power filter	: "adaptor"-type LF300 (recommended in industrial environments)
* bracket	: for mounting windvane DIR 86 and anemometer MAX 40
* windalarm unit	: type 252-PBB (setpoint with adjustable level and delay)
* read-out units (panel mounting)	: - analog:DIN 72*72 mm meters (0..30 m/s and 0...360 degr) 1) - digital:loop powered type 1000 (0..50 m/s and 0...360 degr) 1) - digital:DIN 92*92 mm, type DM-439 (0..40.0 m/s and 16 LEDS for indication of the wind direction

1) other values on request possible

2) WMO: The World Meteorological Organisation; IEA:The International Energy Agency Also available: isolation amplifiers, dataloggers, recorders, PLC's, etc.