

## Multi-input transmitter 6601 with 4-20 mA output for meteorological sensors

- Output 4..20 mA or 0..20 mA
- Wind speed on range 0.03..1500 Hz
- Rain quantity max. 4 000 000 000 counts
- NPN, contacts or pickup sensor
- 4 binary inputs for wind direction
- 100, 250, 500 uA inputs for solar radiant
- 20, 50, 100, 250, 1000, 2500 mV and 5000 mV input
- Potentiometer input for 2- or 3-sensors
- 5V or 10V power supply for sensors
- 12-24VDC power supply
- Configuration by PC or hand held programmer



The exceptional versatile transmitter 6601 is designed to convert most meteorological sensor signals to current signal 4-20 mA. Sensor type selection is made easy with PC based Mekuwin software or hand held programmer 6790, which are suitable also to configure other Nokeval devices. Shortly, one transmitter for all needs.

### Technical data:

#### Wind Speed:

Input range 0.03...1500 Hz  
Sensor types Pickup >200 mV peak, NPN, contact or 4-12 V voltage input  
Accuracy 0.1% of span

#### Rain Rate:

max. counts 4 000 000 000 pulses  
Max. frequency 1500 Hz  
Sensor NPN, contact, pickup for >100 mV  
Reset By external contact  
Memory needs power supply

#### Solar Radiant:

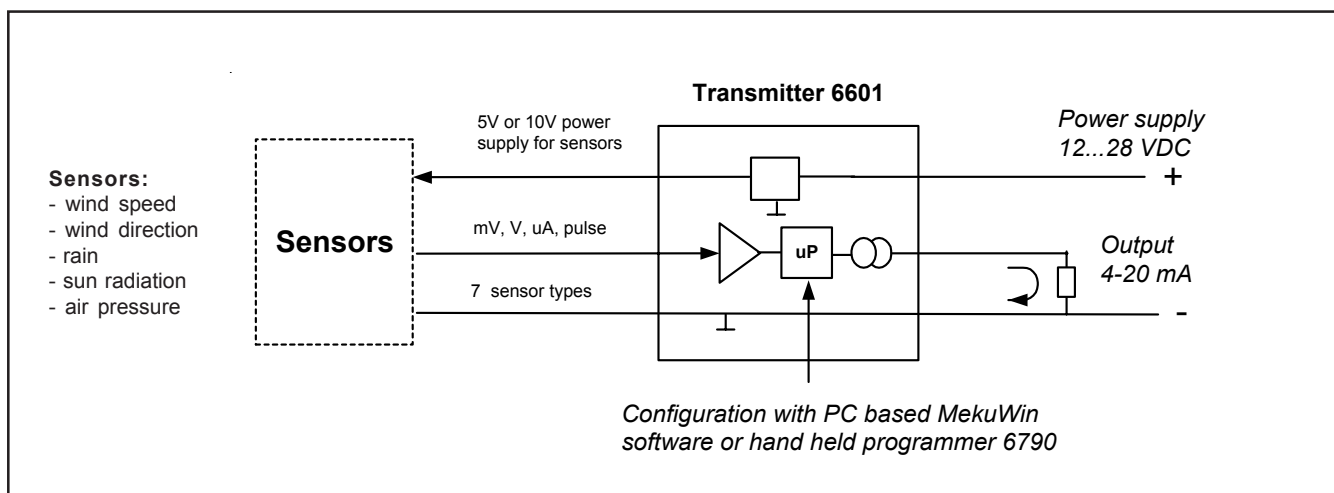
Input ranges 100 uA, 250 uA or 500 uA,  
Input resistance 200 Ω  
Resolution 8 bits  
Accuracy 1% of span added +3uA

#### mV-Input:

Input ranges 20, 50, 100, 250, 1000 or 2500,  
5000 mV, unipolar  
Input resistance >1 MΩ  
Resolution 8 bits  
Filter 100 Average of 100 samples during 100 ms, selectable low pass filter  
Accuracy 1% of span added +0.5 mV

#### Wind Directions:

Number of inputs 4 binary inputs (min. time 50 ms)  
Input types 1 of 4, binary, gray  
Polarity Selectable, opening or closing  
Sensors Contact or 5 V logic



**3-wire potentiometer (wind direction):**

Value >=500 Ω  
 Ref. voltage 5.0 V DC, max 10 mA  
 Resolution 8 bits (linear)

**2-wire potentiometer (wind direction):**

Value >=250 Ω  
 Ref. voltage 5.0 V DC through resistor  
 Resolution 7 bits (non linear)

**Sensor supply:**

Voltage 10 or 5 VDC max. load 10 mA  
 Short circuit current shortly 120 mA

**Output:**

Output ranges 4-20 mA or 0-20 mA, active output  
 Current limits 0 and 25 mA  
 Scaling freely on full range  
 Resolution 10 bits (0.1%)  
 Accuracy 0.5% of span (23 °C)  
 Load 1100 Ω with 24 V power supply  
 500 Ω with 12 V power supply  
 Isolation no isolation between input and output;  
 negative wires are in same potential

Voltage output 0-10V using output 0-20 mA and  
 connecting 500 Ω shunt resistor to  
 received instruments.

**General:**

Power supply 12...30 VDC, max. 50 mA, without  
 sensor current. Polarity protected  
 Operating temp. 0...60 °C  
 Storage temp. -40...+70 °C  
 Weight 50 g  
 Installation DIN-rail 46277 (15 mm)

**Configuration:**

Configuration is easy by PC based MekuWin software  
 or hand held programmer 6790.  
 Adapter SOV-3.5 is necessary for connector in 6601.

**How to order:**

**Type 6601-WS/150Hz-4/20mA**

**Sensor types:**

**WS=Wind speed, WD=wind direction, Rain, Sun, mV,  
 Pot2= 2-wire potentiometer, Pot3= 3-wire potentiometer**  
 Show range after sensor type

Transmitter can be delivered for ordered range, if sensor type and  
 range are advised in order.

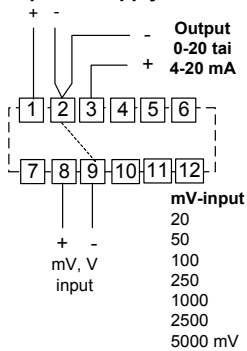
**Options:**

PC-software MekuWin+SOV-3.5  
 Hand held programmer 6790 +SOV-3.5

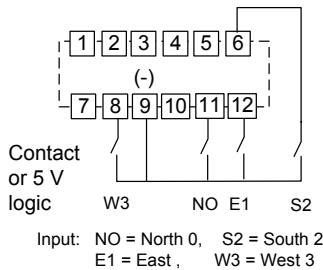
**Connections**

**Power supply and output**

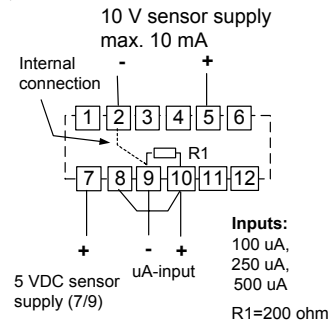
**24 VDC power supply**



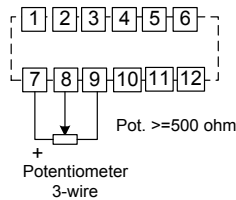
**Wind direction**



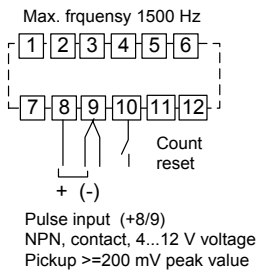
**Solar radiant and sensor supply**



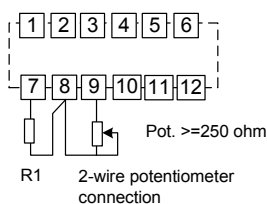
**3-wire potentiometer**



**Win speed and rate**



**2-wire potentiometer**



R1 = same as value of potentiometer  
 For example: potentiometer 10 kΩ,  
 connect 10k resistor (R1) to terminals  
 7 and 8

**Dimensions**

