

**USER INSTRUCTIONS**

**Accessories**  
**Adapter mA**



This user instruction together with the user instruction for the transmitter must be read prior to adjustment and/or installation. All information subject to change without notice.

**MEASURE OF SUCCESS**



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This product should not be mixed with other kind of scrap, after usage. It should be handled as an electronic/electric device.

**MEASURE OF SUCCESS**

Adapter mA (part no. 70ADA00051) is an adapter to convert mA signals to mV signals (shunt resistor), intended to be mounted on the input side of transmitter IPAQ R330.

With the adapter mounted, it gives the possibility to connect mA input signals to the transmitter IPAQ R330. The transmitter will then work as an active isolation transmitter for mA input signals with a 4-20 mA output in a 2-wire connection. It is suitable for direct connection to the input modules of a control system. Thanks to the programmable input range and the low input impedance, it meets almost any need for current signal isolation and load amplification.

**DATA (short form)**

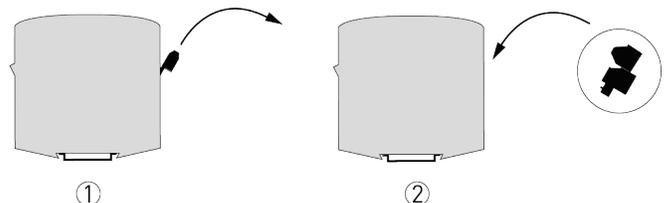
Specifications for IPAQ R330 with adapter mA

<b>Input Current</b>	-1 to +100 mA
<b>Input impedance</b>	10 Ω
<b>Adjustments-Zero</b>	Any value within range limits
<b>Adjustments-Minimum spans</b>	0.2 mA
<b>Output</b>	4-20 or 20-4 mA in 2-wire connection
<b>Operating temperature</b>	-40 to +85 °C / -40 to +185 °F
<b>Galvanic isolation</b>	1500 VAC, 1 min
<b>Power supply</b>	8.0 to 36 VDC
<b>Typical accuracy</b>	±0.1 % of span
<b>Mounting</b>	35 mm DIN rail acc. To EN 60715

For more data, see IPAQ R330 manual and datasheet

**ADAPTER CONNECTION**

1. Remove input terminal marked 1...4
2. Connect 70ADA00051 instead



## CONFIGURATION (calculation)

How to set up the transmitter

### Step 1.

#### Calculation of transmitter Measuring Range to configure.

Use the calculation formula to calculate your measuring range for the transmitter in mV.

( $I_{Start}$  = Start value of input current range in mA)

( $I_{End}$  = End value of input current range in mA)

(LRV = Lower range value to set in mV)

(URV = Upper range value to set in mV)

#### Calculation formula

$$LRV = I_{Start} \times 10$$

$$URV = I_{End} \times 10$$

Example 1.

**Input: 4...20 mA**

$$LRV = 4 \times 10 = 40$$

$$URV = 20 \times 10 = 200$$

Example 2.

**Input: 0...55 mA**

$$LRV = 0 \times 10 = 0$$

$$URV = 55 \times 10 = 550$$

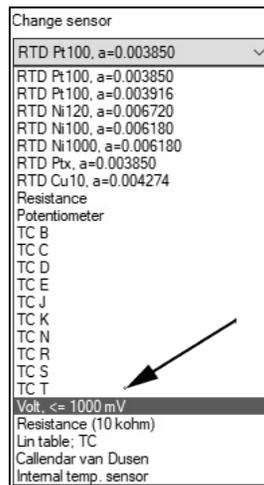
### Step 2.

**Configure the transmitter via a configuration tool, PC Software ConSoft or Smart phone App INOR Connect**

## CONFIGURATION (via PC)

Configuration via PC Software ConSoft  
(example 4...20 mA)

1. Change sensor to Volt (Pic 1)
2. Enter LRV and URV for measuring range (Pic 1a)
3. Write to transmitter



Pic 1

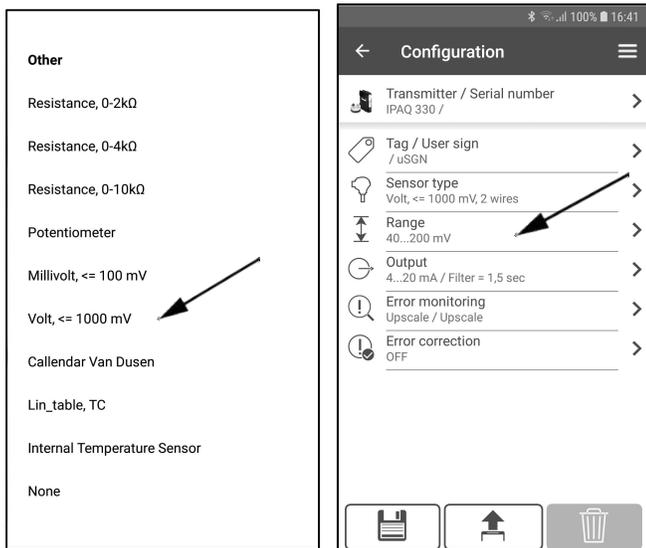


Pic 1a

## CONFIGURATION (via App)

Configuration via Smart phone App INOR Connect  
(example 4...20 mA)

1. Change Sensor type to Volt (Pic 2)
2. Enter LRV and URV for range (Pic 2a)
3. Write to transmitter

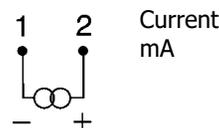


Pic 2

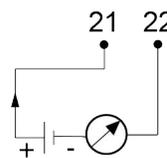
Pic 2a

## CONNECTIONS

Input



Output



## ORDERING INFORMATION

Adapter mA	70ADA00051
Transmitter IPAQ R330	70R3300012