# **CONTA-ELECTRONICS**

# **Isolated Signal converter**

# **CONTACLIP**

CMS-UI60-UI

# **Electrical specifications**

Order information	
type	CMS-UI60-UI
cat.no	15885.2

# Input data range U [mV] (select via dipswitches) range U [V] (select via dipswitches) range I [mA] (select via dipswitches) max. input signal (U / I) input resistance (U / I)

0-60mV / 0-100mV / 0-200mV / 0-300mV / 0-500mV 0-1V / 0-2V / 0-2,5V / 0-5V / 1-5V / 0-10V / 0-20V / 0-40V 0-5mA / 0-10mA / 0-20mA / 4-20mA 40V / 25mA > 200 K0hm / 50 Ohm

#### Output data

output signal (select via dipswitch) max. output signal (U / I) load resistance (U / I) offset (U / I) 0-5V / 1-5V / 0-10V / 0-5mA / 0-10mA / 0-20mA / 4-20mA (and inverted out) < 15V / < 30mA > 1k Ohm / < 600 Ohm < 10mV / < 20uA

#### General data

module power supply module current conversion error linearity error temperature coefficient max. conversion frequency

CE marking

isolation voltage input / power isolation voltage input / output isolation voltage output / power operating / storage temperature conductor cross section connection system insulation stripping length mounting / installation position module size LxWxH (TS35) weight

24V DC ±25% Approx. 50mA < 0,1% < 0,1% < 0,01 %/°C 10Hz

Low Voltage Directive (LVD) 2006/95/EC, according requirements of EN 61010 EMC Directive 2004/108/EC, according requirements of EN 55011 and EN 61326-1

1kV, 50Hz, 1min.
1kV, 50Hz, 1min.
1kV, 50Hz, 1min.
1kV, 50Hz, 1min.
0°C...+55°C / -20°C...+70°C
0,2 - 2,5 mm²
screw clamp connection, pluggable
7 mm
DIN-rail TS35 / any
17,5 x 99 x 114,5 mm
120 gr

#### Manual



The CMS-UI60-UI is a multi-functional 3-way isolated signal converter. This module is used for electrical isolation and conversion of analog signals.

The 3-way isolation enables the module to be used locally as well as in the vicinity of the controlling system.

The inputs and outputs of the converter are configured by means of dipswitches.

Any combination of input and output can be chosen, so numerous different signal conversions can be set. Default input/output setting is 0..10V / 0..10V. Other default input/output settings on request.

#### Features:

- Multifunctional analog input (0..60mV, 0..100mV, 0..200mV, 0..300mV, 0..500mV, 0..1V, 0..2V, 0..2,5V, 0..5V, 1..5V, 0..10V, 0..20V, 0..40V, 0..5mA, 0..10mA, 0..20mA, 4..20mA)
- Multifunctional analog output (0..5V, 1..5V, 0..10V, 0..5mA, 0..10mA, 0..20mA, 4..20mA). The output signal can be inverted with one dipswitch.
- Analog signal range selectable via DIP switches
- 3-Way galvanic isolation
- Power supply 24V DC
- Other analog signal ranges on request

Cms-ui60-ui manual rev0.fl.doc

# Configuration



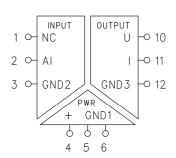
To open the module press the locking levers under the terminals with a screwdriver.

The module is configured by setting the dip-switches according to this manual and the table on the side of the module.

#### Connecting the module

The pin configuration for I/O and power connection is shown on the top of the module.

# Connection diagram



### Dipswitch settings

		Dipswitch 1								
Input range (V)	1	2	3	4	5	6	7	8		
060mV	OFF	OFF	ON	OFF	OFF	OFF	OFF	Х		
0100mV	OFF	OFF	ON	ON	OFF	OFF	OFF	Х		
0200mV	OFF	OFF	ON	OFF	ON	OFF	OFF	Х		
0300mV	OFF	OFF	ON	ON	ON	OFF	OFF	Х		
0500mV	OFF	OFF	ON	OFF	OFF	ON	OFF	Х		
01V	OFF	OFF	ON	ON	OFF	ON	OFF	Х		
02V	OFF	OFF	ON	OFF	ON	ON	OFF	Х		
02,5V	OFF	ON	OFF	ON	ON	ON	OFF	Х		
05V	OFF	ON	OFF	OFF	OFF	OFF	ON	Х		
15V	OFF	ON	OFF	ON	OFF	OFF	ON	Х		
010V	OFF	ON	OFF	OFF	ON	OFF	ON	Х		
020V	OFF	ON	OFF	ON	ON	OFF	ON	Х		
040V	OFF	ON	OFF	OFF	OFF	ON	ON	Х		
Input range (mA)	1	2	3	4	5	6	7	8		
05mA	ON	OFF	ON	OFF	OFF	OFF	ON	Х		
010mA	ON	OFF	ON	OFF	ON	OFF	ON	Х		
020mA	ON	OFF	ON	ON	ON	OFF	ON	Х		
420mA	ON	OFF	ON	ON	OFF	ON	ON	Х		

	Dipswitch 2							
Output range (V)	1	2	3	4	5	6	7	8
010V	X	Х	Х	OFF	OFF	OFF	OFF	Х
05V	X	Х	Х	ON	OFF	OFF	OFF	Х
15V	X	Х	Х	OFF	ON	OFF	OFF	Х
100V	Х	Х	Х	OFF	OFF	OFF	ON	Х
50V	X	Х	Х	ON	OFF	OFF	ON	Х
51V	X	Х	Х	OFF	ON	OFF	ON	Х
Output range (mA)	1	2	3	4	5	6	7	8
05mA	X	Х	Х	ON	ON	OFF	OFF	Х
010mA	Х	Х	Х	OFF	OFF	ON	OFF	Х
020mA	X	Х	Х	ON	OFF	ON	OFF	Х
420mA	X	Х	Х	OFF	ON	ON	OFF	Х
50mA	X	Х	Х	ON	ON	OFF	ON	Х
100mA	X	Х	Х	OFF	OFF	ON	ON	Х
200mA	X	Х	Х	ON	OFF	ON	ON	Х
204mA	X	Х	Х	OFF	ON	ON	ON	X

X = Don't Care

Further information: www.conta-clip.com Cat. No.: 95120.7 Further information: www.conta-clip.com