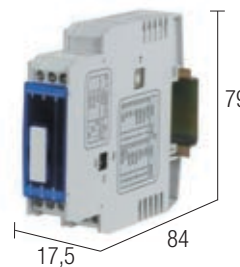
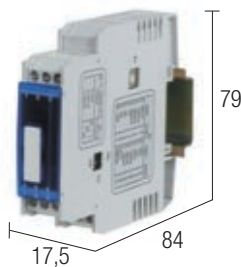


# Multi function converters and isolators

- IN / OUT / supply galvanic isolation
- 14 programmable input range
- 3 programmable output range
- Simple programming and self calibrating
- Available version with 24-240 Vac/dc supply voltage

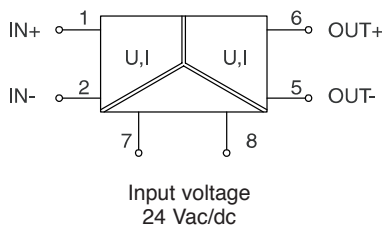


Wide range input voltage 24-240 Vac/dc

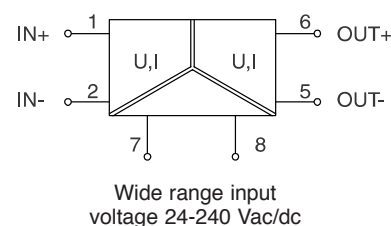
## NOTES

- (1) Adjustable via rotary-switch  
(2) Adjustable via dip-switch

## BLOCK DIAGRAM



## BLOCK DIAGRAM



## APPLICATIONS

Multifunction converters can be used to convert and isolate the most common standard analog signals; the input of the modules can be set up into 14 signal ranges and the output can be set for up to 3 most important analog ranges. The set up is possible by simply switching the position of a dip switch on the side of the module. The many different input / output combinations offered by multifunction modules, allow to reduce inventory for both new and replacement products and provides many signal conversion solutions.

The "3 ways" galvanic isolation, assure total isolation between input, output and supply input; this feature, and the "self calibrating signal circuitry" gives excellent accuracy without any manual adjustment.

If a single signal must provide several output channels it is possible to use many modules connecting their inputs in parallel as long as the signal is voltage, or in series when signal is current.

## VERSIONS

24 Vac/dc supply voltage  
24-240 Vac/dc supply voltage

**CWUAA 6-0516** cod. X756516

**CWUAA 6-0517** cod. X756517

## INPUT TECHNICAL DATA

Input signal (1)

0-60 / 0-100 / 0-300 / 0-500 mV  
0-1 / 0-10 / 0-20 / 2-20 V  
0-5 / 0-10 / 0-20 / 4-20 /  $\pm 5$  /  $\pm 20$  mA

0-60 / 0-100 / 0-300 / 0-500 mV  
0-1 / 0-10 / 0-20 / 2-20 V  
0-5 / 0-10 / 0-20 / 4-20 /  $\pm 5$  /  $\pm 20$  mA

Input current

—

—

Input voltage

330 k $\Omega$  with input voltage;  
100  $\Omega$  with input current

330 k $\Omega$  with input voltage;  
100  $\Omega$  with input current

Input characteristic impedance

## OUTPUT TECHNICAL DATA

Output signal (2)

0-10 V  
0-20 / 4-20 mA  
55  $\Omega$  with output voltage,  
400  $\Omega$  with output current

0-10 V  
0-20 / 4-20 mA  
55  $\Omega$  with output voltage,  
400  $\Omega$  with output current

Applicable load

## APPROVALS



## GENERAL TECHNICAL DATA

Supply voltage

**24 Vac/dc** (16.8 - 30 Vdc / 19.2 - 28.8 Vac)

**24-240 Vac/dc** (16.8 - 264 Vdc / 19.2 - 264 Vac)

Max. rated current

$\leq 35$  mA  $\pm 10\%$  @ 24 Vdc

$\leq 35$  mA  $\pm 10\%$  @ 24 Vdc

Accuracy

0.1 % @ 23°C full range

0.1 % @ 23°C full range

Transmission frequency

< 30 Hz

< 30 Hz

Temperature coefficient

0.02% / K full range

0.02% / K full range

Isolation

1.5 kVac / 60 s (IN / OUT / supply voltage)

4 kVac / 60 s (IN / OUT / supply voltage)

EMC Standard

EN 50081-2, EN 50082-2

EN 50081-2, EN 50082-2

Reference Standard

IEC 664-1, DIN VDE

IEC 664-1, DIN VDE

Overtoltage category

III

III

Pollution degree

2

2

Protection degree

IP20

IP20

Operating temperature

-25 ... +60°C (-13 ... +140°F)

-25 ... +60°C (-13 ... +140°F)

Connection terminal blocks

2.5 mm<sup>2</sup>, screw type

2.5 mm<sup>2</sup>, screw type

Housing material

Noryl UL94 V-0

Noryl UL94 V-0

Approximative weight


500 g (17.64 oz)

500 g (17.64 oz)

Mounting information

on rail adjacent without gap

on rail adjacent without gap

Mounting rail  according to IEC60715/TH35-7,5

**PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**

**PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**

To locate additional product specifications and technical drawings go to [www.asi-ez.com](http://www.asi-ez.com)