



DPT02

Digital Universal Input Signal Converter(Signal Converter)



## | Features |

- Local display, easy keypad programming the signal output and scale,LED for working status
- Measuring input type : DC current / DC voltage
- More output type : Analog output / RS-485 / Relay / 2 Channel output
- 20-Point linear calibration
- Signal isolation : Power supply / Analog input / Analog output / RS-485
- Power supply : AC 85 ... 253 V ; Auxiliary supply output(DC 16 ... 25 V / 23 mA), use for 2-wire & 3-wire transmitter
- User-friendly. high light red LED display panel, 7.6 mm(Height of character), 3 digits, -199 ... 999, 7-segment display
- DIN rail installation, high safety & stability, fire-proof case, moisture-proof cover

## | Applications |

- Chemical industry / Energy / Oil & gas / Marine / Water circulation system / Factory automation / Metal & steel / Cement / Pulp & paper / Pharmaceuticals / Food & beverage

## Specification

### Display

Display readout	3 Digits(-199 ... +999)
Decimal point	0 ... 2 Place, button
Screen	Highlight red LED(7-Segment)
Digit height	7.6 mm
Accuracy	0.2%F.S. ±1 digital
Sampling time	4 cycle / sec
Response time adjustment range	0.5 ... 60 sec
Parameter setting mode	Button

### Input

Voltage	0 ... 10 V / 2 ... 10 V / 0 ... 1 V / 0 ... 5 V / 0.2 ... 1 V / 1 ... 5 V
Current	0 ... 20 mA / 4 ... 20 mA

### Output

Voltage	0 ... 1 V / 0.2 ... 1 V / 0 ... 5 V / 1 ... 5 V / 0 ... 10 V / 2 ... 10 V / 1 ... 0 V / 1 ... 0.2 V / 5 ... 0 V / 5 ... 1 V / 10 ... 0 V / 10 ... 2 V
Current	0 ... 20 mA / 4 ... 20 mA / 20 ... 0 mA / 20 ... 4 mA
Output signal	Analog output, Relay, RS-485
Load resistance	Current : $R_L < 500 \Omega$ Voltage : $\geq 10 K\Omega$
Analog output resolution	16 bit
Signal error detection	Yes

### Relays

Alarm hysteresis	Display value or 0 ... 100%
ON and OFF delay	0 ... 3600 sec
Output signal error detection	Yes
Relay actuation direction	Upper limit : HI, AL / Lower limit : LO, AL
Relay capacity	Max current : 6 A Max voltage : AC 277 C / DC 30 V Max power : 1500 VA / 180 W

### Communication

Protocol	RS-485 Modbus RTU, master or slave
RS-485 baud rate	9600, 19200, 38400, 57600, 115200 bps

### Environment

Operating environment	-10 ... +60°C ; 0 ... 95%(Non-condensing)
Storage environment	-25 ... +70°C

### Electrical

Power supply / Voltage	AC 85 ... 253 V
Auxiliary power	DC 16 ... 25 V / 23 mA
Insulation voltage endurance	2 KVac / 1 min
Parameter memory type	Flash
Dissipated power	5 W

### Isolation

Power supply / Analog input / Analog output / RS-485	
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### Protect

IP rating	IP20
Electric protection	■ Polarity protection ■ Over-voltage

### Certification

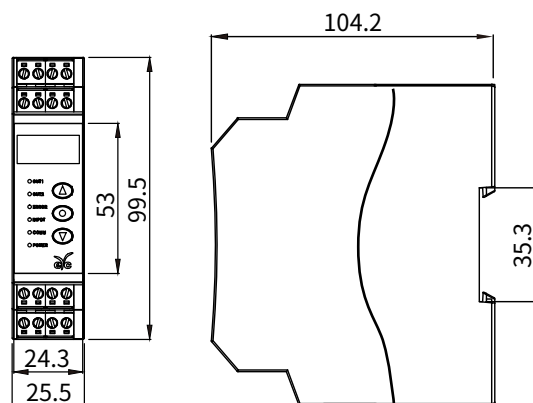
Certification	CE
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### Material

Housing	ABS fire-proof class(UL94V-0)
Dimensions(HxWxD)	99.5x25.5x104.2 mm
Weight	About 158 g

\*Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.

## Dimension | Unit: mm



## | Diagram |

31	34	DPT02-A(1 Analog output )	DPT02-B(2 Analog output )
21 22 23 24		31 : AC 85 ... 253 V 34 : AC 85 ... 253 V	31 : AC 85 ... 253 V 34 : AC 85 ... 253 V 21 : -A. OUT2 22 : +A. OUT2
		1 : 2 : -mA    -V 3 : +mA 4 : +exc.   +V 11 : -A. OUT1 12 : +A. OUT1 13 : 14 :	
1 2 3 4		eyc	
11 12 13 14			

31	34	DPT02-D(1 Analog output+RS-485+Relay)
21 22 23 24		31 : AC 85 ... 253 V 34 : AC 85 ... 253 V 21 : relay. COM 22 : relay. NO 23 : relay. NC
		1 : 2 : -mA    -V 3 : +mA 4 : +exc.   +V 11 : -A. OUT1 12 : +A. OUT1 13 : RS-485 D- 14 : RS-485 D+
1 2 3 4		eyc
11 12 13 14		

## | Ordering Guide |

