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：RL＜500 Ω
	Voltage：≧10 KΩ
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

Protect

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

Certification

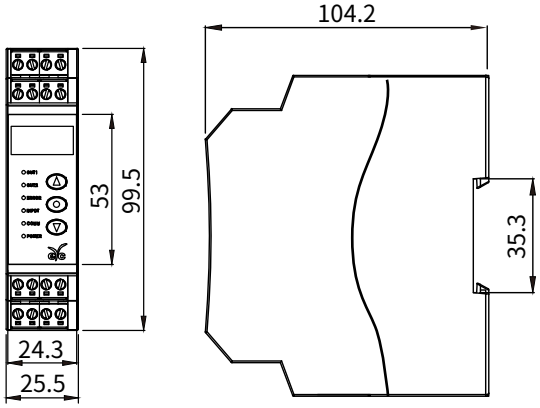
Certification	CE

Material

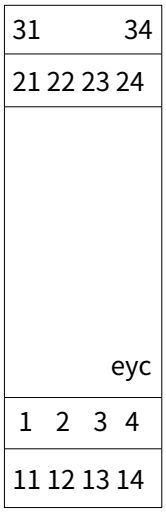
Housing	ABS fire-proof class(UL94V-0)
Dimensions(HxWxD)	99.5x25.5x104.2 mm
Weight	About 158 g

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

| Dimension | Unit:mm

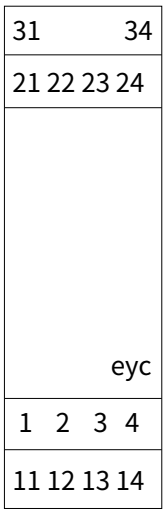


| Diagram |



DPT02-A(1 Analog output)	DPT02-B(2 Analog output)
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：



DPT02-D(1 Analog output+RS-485+Relay)

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+

| Ordering Guide |

DPT02 - A

Output

A：1 Analog output
B：2 Analog output
D：1 Analog output+RS-485+Relay