

# Z-PC-LINE

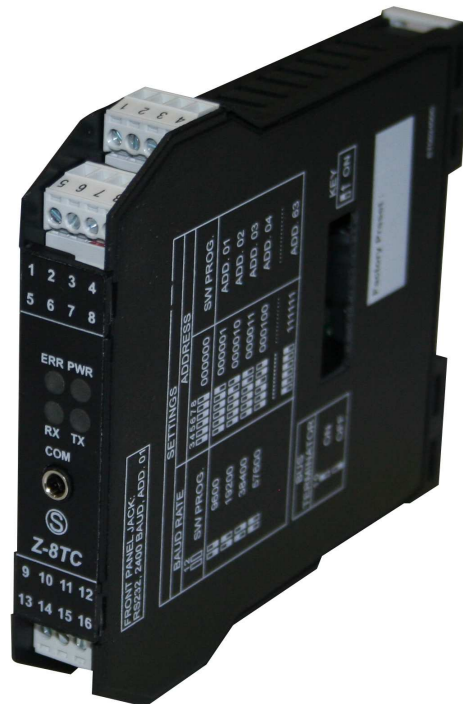
## Z-8TC

8 Ch.TC input module / RS485 Modbus

**Z-PC LINE**

Analogue I/O modules

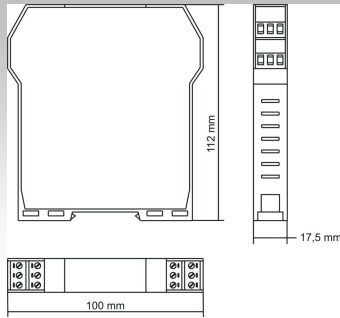
CE



- ▶ INPUT: N.8 channels configurable as TC (J,K,E,N,S,R,B,T) or mV (-10,1..81,4mV)
- ▶ INTERFACE: RS485 serial communication with Modbus–RTU protocol,
- ▶ Each input is configured independently from the others
- ▶ Easy Dip-switch settings for address and baud rate
- ▶ ACCURACY: 0,05%
- ▶ Galvanic isolation @ 6-way
- ▶ Screw-fit terminals removable
- ▶ Din rail mounting
- ▶ Power supply: 10..40 Vdc, 19..28 Vac

# TECHNICAL SPECIFICATIONS

## Z-8TC\_ 8 Ch. TC input module / RS485 Modbus



### ELECTRICAL

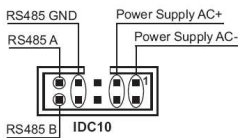
<b>Power supply</b>	10÷40Vdc, 19÷28 Vac
<b>Max consumption</b>	0,6 W
<b>Isolation</b>	6-way @ 1.500 Vac
<b>Input protection</b>	According norms in force
<b>Supply protection</b>	400 W/ms
<b>Status indicators</b>	Power Supply Error Data sending Data receiving
<b>Installation class</b>	II
<b>Pollution rating</b>	2
<b>Protection rating</b>	IP20

### THERMOMECHANICS

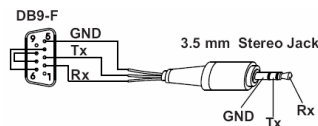
<b>Operating temperature</b>	-10..+65 °C
<b>Storage temperature</b>	-20..+85°C
<b>Humidity</b>	30..90% at +40°C (non condensing)
<b>Dimensions</b>	17,5 x 100 x 112 mm
<b>Weight</b>	140 g
<b>Case</b>	V0 self-extinguish fiber glass filled
<b>Hot swapping</b>	Yes
<b>Connection</b>	Plug-in screw clamp terminal blocks, wires up to 1,5 mm <sup>2</sup> IDC10 backplane connector for DIN guide RS232 (COM) communication front jack
<b>Mounting</b>	35 mm DIN 46277

### SERIAL CONNECTIONS

#### POWER SUPPLY AND RS485 SERIAL PORT



#### RS232 SERIAL PORT (DB9-stereo jack 3,5 mm connection cable)



### ORDER CODES

Code	Description
<b>Model</b>	<b>Z-8TC</b> 8 TC input module / Rs485 ModBUS
<b>Software</b>	<b>Z-PROG, Z-NET</b> Configuration sw downloading from <a href="http://www.seneca.it">www.seneca.it</a>
<b>Bus accessories</b>	<b>Z-PC DINAL</b> (Terminal block for power & RS485 communication) <b>Z-PC DIN2 Z-PC DIN4 Z-PC DIN8</b> (2, 4, 8 slot block)
<b>Cable</b>	<b>PM001600</b> cable for programming
<b>K-LINE modules</b>	<b>K107A</b> (RS485 repeater), <b>K107B</b> (RS232-RS485 converter), <b>K107USB</b> (USB-RS485 din rail mounting), <b>S107USB</b> (portable)

### COMMUNICATION, PROCESSING, MEMORY

<b>RS485 interface</b>	2 wires, speed rate: 1.200..115 kbaud
<b>RS232 interface</b>	Jack port, baud rate 2.400, data 8 bit, no parity, 1 bit stop
<b>Protocol</b>	ModBUS RTU Slave
<b>Disturbance rejection</b>	Settable form 50 to 60 Hz
<b>Max distance</b>	1.200 m
<b>Connectivity</b>	Max 32 nodes
<b>Data store</b>	EEPROM, 40 years

### SIGNALS, MEASURE, CONFIGURATION, NORMS

<b>Input channels</b>	8
<b>Input type</b>	4 clamp -Thermocouple types: J, K, E, N, S, R, B, T EN60584-1 (ITS-90). - mV: from -10,1..81,4mV
<b>Thermal drift</b>	< 100 ppm/K
<b>Cold junction error</b>	< 1°C
<b>ADC resolution</b>	14 or 15 bit
<b>Impedance</b>	10 MOhm
<b>Temperature range</b>	Dependent on Thermocouple type
<b>Software configuration</b>	Serial (RS232/485) or ethernet (Z-NET) paramaters setup
<b>Other functions</b>	Yes
<b>DIP switch</b>	Communication parameters
<b>Norms</b>	EN 61000-6-4/2002, EN 61000-6-2002, EN 61010, EN 60742

### ELECTRICAL CONNECTIONS

#### INPUTS (6 way galvanic isolation)

