

MTL5575 / MTL Industries Temperature Converter

Our Product Introduction

for more products please visit us on achieversinstruments.com

Basic Information

- Place of Origin: UK/China
- Brand Name: MTL
- Certification: HART
- Model Number: MTL5575
- Minimum Order Quantity: 1
- Price: Negotiate
- Packaging Details: carton
- Delivery Time: stock
- Payment Terms: T/T
- Supply Ability: 1000pcs per week



Product Specification

- Manufacturer: MTL Instruments
- Product No: MTL5575
- Safety Drive On Sensor Failure: Upscale, Downscale, Or Off
- Maximum Lead Resistance (THC): 600Ω
- Response Time: Configurable - 500 Ms Default
- Shipping Weight: 1.5 Kg
- Highlight: **MTL5575, MTL Temperature Converter, Industries Temperature Converter**



More Images



Product Description

MTL5575 MTL Industries Temperature Converter



The MTL5575 converts a low-level dc signal from a temperature sensor mounted in a hazardous area into a 4/20mA current for driving a safe-area load. Software selectable features include linearisation, ranging, monitoring, testing and tagging for all thermocouple types and 2-, 3- or 4-wire RTDs. (For thermocouple applications the HAZ-CJC plug on terminals 1–3 includes an integral CJC sensor). Configuration is carried out using a personal computer. A single alarm output is provided and may be configured for process alarm or to provide notice of early thermocouple failure.

See also common specification

- Number of channels
 - One
- Signal source
 - THC types J, K, T, E, R, S, B or N to BS 60584 and XK mV input
 - RTDs 2/3/4-wire platinum to BS 60751
 - Pt 100, Pt 500, Pt 1000
 - Cu-50 & Cu-53
 - Ni 100/500/1000 DIN 43760
- Location of signal source
 - Zone 0, IIC, T4-6 hazardous area
 - Division 1, Group A, hazardous location
- Input signal range
 - 75 to +75mV, or 0 to 400Ω (0 to 1000Ω Pt & Ni sensors)
- Input signal span
 - 3 to 150mV, or 10 to 400Ω (10 to 1000Ω Pt & Ni sensors)
- RTD excitation current
 - 200μA nominal
- Cold junction compensation
 - Automatic or selectable
- Cold junction compensation error
 - ≤ 1.0°C
- Common mode rejection
 - 120dB for 240V at 50Hz or 60Hz (500ms response)
- Series mode rejection
 - 40dB for 50Hz or 60Hz
- Calibration accuracy (at 20°C)
 - (includes hysteresis, non-linearity and repeatability)
 - Inputs: (500ms response)
 - mV/THC: ± 15μV or ± 0.05% of input value (whichever is greater)
 - RTD: ± 80mΩ
 - Output: ± 11μA
- Temperature drift (typical)
 - Inputs:
 - mV/THC: ± 0.003% of input value/°C
 - RTD: ± 7mΩ/°C
 - Output: ± 0.6μA/°C
- Example of calibration accuracy and temperature drift
 - (RTD input - 500ms response)
 - Span: 250Ω
 - Accuracy: ± (0.08/250 + 11/16000) × 100%
= 0.1% of span
 - Temperature drift: ± (0.007/250 × 16000 + 0.6) μA/°C
= ± 1.0μA/°C
- Safety drive on sensor failure
 - Upscale, downscale, or off
- Early burnout
 - Early burnout detection for thermocouples (when selected)
 - Alarm trips when loop resistance increase is > 50Ω
- Output range
 - 4 to 20mA nominal into 600Ω max.
- Alarm output (configurable)
 - Relay ON in alarm, 250mA @ 35V max
- Maximum lead resistance (THC)
 - 600Ω
- Response time
 - Configurable - 500 ms default (Accuracy at 100/200ms - contact MTL)
- LED indicator
 - Green: power and status indication
 - Yellow: alarm indication, on when contacts are closed
- Maximum current consumption (with 20mA signal)
 - 50mA at 24V
- Power dissipation within unit (with 20mA signal)
 - 1.2W at 24V

- Safety description
Refer to certificate for parameters. Um=253V rms or dc
- Configurator
A personal computer running MTL PCS45 software with a PCL45USB serial interface

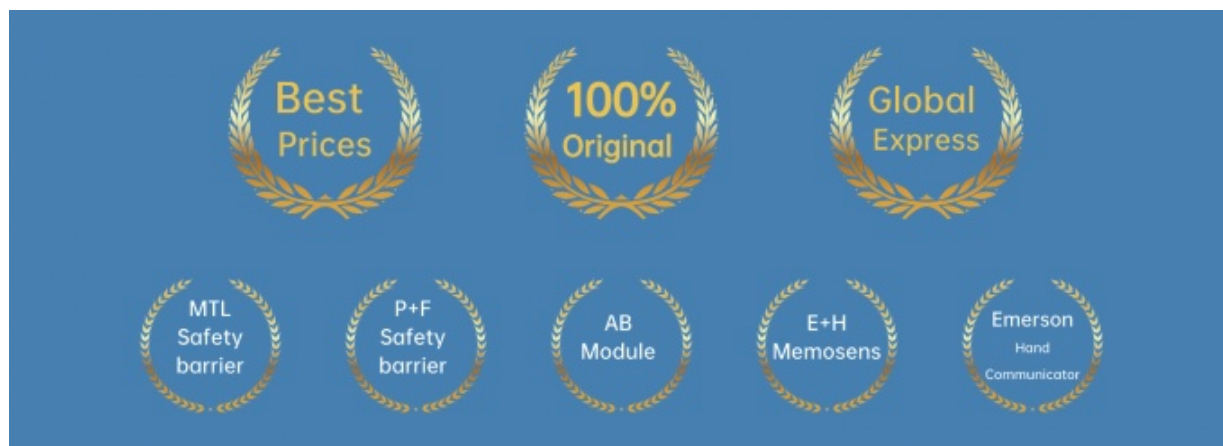
HCU16	MTL5521	MTL4575
HCU3700	MTL5522	MTL4646Y
HM64RIB20-1.0	MTL5531	MTL4850
HM64RIB20-1.5	MTL5532	MTL4851
HMM64	MTL5541	MTL4852
HMRIB16-1.0	MTL5541S	MTL5018
HMS64	MTL5544	MTL5032
HTP-SC32	MTL5544D	MTL5042
MTL4044D	MTL5546	MTL5044
MTL4511	MTL5546Y	MTL5049
MTL4516	MTL5561	MTL5511
MTL4516C	MTL5573	MTL5514D
MTL4521	MTL5575	MTL5516
MTL4541	MTL5582B	MTL5516C
MTL4541	MTL7728+	MTL7787P+
MTL4544	MTL7756AC	MTLCPS16
MTL4544D	MTL7760AC	NJ5-18GK-N
MTL4546Y	MTL7761PAC	SD150X
MTL4549Y	MTL7765AC	SD32
MTL4573	MTL7787+	SD32X
TP48-4-N-NDI	TP48-3-N-NDI	SDRTD
TP48-N-NDI	TP48-4-I-NDI	SLP32D



Achievers Automation Limited is a well-established player in the field of industrial automation, boasting a rich and extensive experience of more than **12 years**.

Over these years, the company has dedicated itself to dealing with a comprehensive and complete range of industrial automation components and instruments. With an unwavering commitment to excellence, the team at Achievers always goes the extra mile, striving their absolute best to provide top-notch quality goods and highly efficient, timely services to our esteemed and valued customers.

These customers hail from over 45 countries across the globe, spanning different continents and diverse industrial landscapes.



FAQ of Achievers

Q:Are preferential prices available?

A: We provide customers with competitive product prices and the biggest discounts through a long-term cooperative supply chain system.

Q:Are the Products Genuine OEM Units?

A: These items have been certified by Achievers Automation Limited to be genuine OEM Units obtained through OEM or independent third-party channels.

Q:How will you arrange shipment?

A: We can arrange shipment based on your request. We have cooperated forwarder who can arrange shipment via FedEx,

DHL,TNT,UPS with good price.

Q:What is the warranty of goods?

A: One-year Warranty.

Q:Which are the best-selling products?

A: Many brands of products have been supplied to customers from all over the world for a long time. For example, MTL safety barrier MTL5541, Endress Hauser RS33 , P+F safety barrier KFD2-SR2-Ex2.W,Emerson Hand Communicator TREXCHPNAWS1S,xnx transmitter honeywell



Achievers Automation Limited



13828861501



joanna@achieversautomation.com



achieversinstruments.com

RM 509, 5/F, THE CLOUD, 111,TUNG CHAU STREET, TAI KOKTSUI, KOWLOON,HONG KONG