



## Two Channels MTL4544 MTL Instrument Power Supply Repeater

Our Product Introduction

for more products please visit us on [achieversinstruments.com](http://achieversinstruments.com)

### Basic Information

- Place of Origin: UK/China
- Brand Name: MTL
- Certification: HART
- Model Number: MTL4544
- 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: MTL4544
- Temperature Drift: <math>< 0.8\mu A/^{\circ}C</math>
- Number Of Channels: Two
- Shipping Weight: 1kg
- Quality Guarantee: 1 Year
- Highlight: **MTL4544, Two channels Power Supply Repeater, 2 wire Power Supply Repeater**



### More Images



## Product Description

### MTL4544 MTL Instrument Repeater Power Supply

MTLx544 provides fully-floating dc supplies for energising twoconventional 2-wire or 3-wire 4/20mA or HART transmitters located in a hazardous area, and repeats the current in other circuits to drive two safe-area loads. For smart transmitters, the unit allows bi-directional transmission of digital communication signals superimposed on the 4/20mA loop current. Alternatively, the MTLx544S acts as a current sink for a safe-area connection rather than driving a current into the load. Separately powered current sources, such as 4-wire transmitters can be connected but will not support HART communication.

#### Specification

Product Type : Repeater Power Supply

Number of channels : Two

Location of transmitter

Zone 0, IIC, T4–6 hazardous area if suitably certified

Div. 1, Group A hazardous location

Safe-area output

Signal range: 4 to 20mA

Under/over-range: 0 to 24mA

Safe-area load resistance (MTLx 544)

@ 24mA : 0 to 360?

@ 20mA : 0 to 450?

Safe-area load (MTLx544S)

Current sink: 600? max.

Maximum voltage source: 24V dc

Safe-area circuit output resistance: > 1M?

Safe-area circuit ripple : < 50µA peak-to-peak

Hazardous-area input

Signal range: 0 to 24mA (including over-range)

Transmitter voltage: 16.5V at 20mA

Transfer accuracy at 20°C : Better than 15µA

Temperature drift : < 0.8µA/°C

Response time : Settles to within 10% of final value within 50µs

Communications supported : HART (terminals 1 & 2 and 4 & 5 only)

LED indicator : Green: power indication

Maximum current consumption (with 20mA signals) : 96mA at 24V dc

Power dissipation within unit (with 20mA signals)

MTLx544 1.4W @ 24V dc

MTLx544S 1.9W @ 24V dc

Safety description (each channel)

Terminals 2 to 1 and 3, and 5 to 4 and 6 :  $U_o=28V$   $I_o=93mA$   $P_o=651mW$   $U_m = 253V$  rms or dc

Terminals 1 to 3 and 4 to 6 : Simple apparatus =1.5V, =0.1A and =25mW; can be connected without further certification into any IS loop with an open-circuit voltage <28V

Dimensions ( W x H ) : 1.58 cm x 10.98 cm x 12.36 cm

Weight : Approx. 0.11 Kg

#### Related Models:

HCU16	MTL5521
HCU3700	MTL5522
HM64RIB20-1.0	MTL5531
HM64RIB20-1.5	MTL5532
HMM64	MTL5541
HMRIB16-1.0	MTL5541S
HMS64	MTL5544
HTP-SC32	MTL5544D
MTL4044D	MTL5546
MTL4511	MTL5546Y
MTL4516	MTL5561
MTL4516C	MTL5573
MTL4521	MTL5575
MTL4541	MTL5582B
MTL4541	MTL7728+
MTL4544	MTL7756AC
MTL4544D	MTL7760AC
MTL4546Y	MTL7761PAC
MTL4549Y	MTL7765AC
MTL4573	MTL7787+
MTL4575	MTL7787P+
MTL4646Y	MTLCPS16
MTL4850	NJ5-18GK-N
MTL4851	SD150X
MTL4852	SD32
MTL5018	SD32X
MTL5032	SDRTD
MTL5042	SLP32D
MTL5044	TP48-3-I-NDI
MTL5049	TP48-3-N-NDI
MTL5511	TP48-4-I-NDI
MTL5514D	TP48-4-N-NDI
MTL5516	TP48-N-NDI
MTL5516C	ZB24571




**Achievers Automation Limited**

 13828861501    
  [joanna@achieversautomation.com](mailto:joanna@achieversautomation.com)    
  [achieversinstruments.com](http://achieversinstruments.com)

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