

Specifications



Eaton MTL5544D

Eaton Crouse-Hinds series MTL5500 repeater power supply, 1 channel, Analogue input, 20-35 Vdc, 1.4W dissipation, 96mA, 4-20mA signal, HART (terminals 1 & 2, output Ch 1 only), LED: Green = power, 2- or 3-wire transmitters, dual output

General specifications

PRODUCT NAME	Eaton Crouse-Hinds series MTL5500 repeater power supply
CATALOG NUMBER	MTL5544D - FSM ASSESSED
EAN	3066227675815
PRODUCT LENGTH/DEPTH	109.8 mm
PRODUCT HEIGHT	118.8 mm
PRODUCT WIDTH	15.8 mm
PRODUCT WEIGHT	150 g
PRODUCT TYPE	Repeater power supply

Certifications and compliances

AREA CLASSIFICATION	Hazardous/Classified Locations
STANDARDS TYPE	IEC IECEX/ATEX
IECEX/ATEX HAZARDOUS RATING	Zone 0
EMC	EN61326
SAFETY INTEGRITY LEVEL ACCORDING TO IEC61508	SIL2 and SIL3

Current

CURRENT CONSUMPTION	96mA at 24 Vdc
UNDER/OVER RANGE	0-24mA
LOAD RESISTANCE	0-360Ω (at 24mA), 0-450Ω (at 20mA)

Connection

ELECTRICAL CONNECTION	Crimp ferrules
TERMINAL CAPACITY	Accepts conductors of up to 2.5mm ² stranded or single-core

Product specifications

SIGNAL TYPE	Analogue input
NUMBER OF CHANNELS	1
MOUNTING METHOD	T-section 35mm DIN rail
POWER DISSIPATION	1.4W at 24 Vdc
SIGNAL RANGE	4-20mA
RESPONSE TIME	Settles to within 10% of final value within 50μ s
COMMUNICATION SUPPORTED	HART (terminals 1 & 2, output Ch 1 only)
TRANSFER ACCURACY	Better than 15μ A
TEMPERATURE DRIFT	<0.8μ A/°C
RIPPLE	<50μ A peak-to-peak
GALVANIC ISOLATION	250V rms between safe-area circuits and power supply
TYPE	2- or 3-wire transmitters, dual output

Voltage

POWER SUPPLY	20-35 Vdc
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LED indication

LED INDICATION	Yes
LED COLOR - POWER	Green

Environmental

**MINIMUM AMBIENT
OPERATING
TEMPERATURE** -20 °C

**MAXIMUM AMBIENT
OPERATING
TEMPERATURE** 60 °C

**MINIMUM AMBIENT
STORAGE TEMPERATURE** -40 °C

**MAXIMUM AMBIENT
STORAGE TEMPERATURE** 80 °C

HUMIDITY 5-95% relative humidity

Resources

CATALOGS [MTL4500/5500 range of Intrinsically Safe Galvanic Isolators - catalog](#)

INSTALLATION
INSTRUCTIONS [MTL5500 ATEX Safety Instructions](#)
[MTL5500 Range of Isolating Interface Units - instruction manual](#)

TECHNICAL SERVICE
BULLETINS [MTL5500 FSM Safety Manual - Analogue Input Modules](#)

[MTL5500 FSM Safety Manual - Analogue Input Modules - A Variants](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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