

Industrial Isolated Converter

485LDR09



PRODUCT FEATURES

- Extend data up to 1.2 km (4,000 ft.)
- 2 kV optical isolation on input/output
- Wide operating temperature (-40 to +80 °C)
- Modbus compatible
- UL Recognized, NEMA TS2
- Automatic Send Data Control

The 485LDR09 is an optically isolated RS-232 to RS-422/485 converter. RS-232 signals interface through a DB9 female connector or a terminal block. RS-422/485 signals and power inputs connect to the terminal block. Terminal blocks are arranged to allow easy wiring inside a control panel.

Built-in Automatic Send Data Control circuitry allows quick set-up and eliminates the need for external software drivers to control handshake signals. The converter operates on externally sourced 10-30 VDC power.

Optically isolated data lines (2,000 V on input/output) with 500W surge suppression ensure that connected equipment is protected even in the harshest environments. DIN rail mount design snaps on standard 35mm rail and a small form factor fits neatly into tight cabinets.

The 485LDR09 is ideal for critical industrial communications, factory automation, in-cabinet conversion, warehouse automation, security, and many other applications.

ORDERING INFORMATION

MODEL NUMBER	RS-232 CONNECTOR	RS-422/485 CONNECTOR
485LDR09	DB9 Female or Terminal Block	Terminal Blocks

SPECIFICATIONS

SERIAL TECHNOLOGY

RS-232 - 2 options

Option 1: Connector	DB9 Female (DCE)
Option 1: Signals	TD, RD, GND
Option 2: Connector	Terminal block
Option 2: Signals	TD, RD, GND

RS-422

Connector	Terminal block
Signals	TDA(-), TDB(+), RDA(-), RDB(+), GND
Termination	120 (switchable)

RS-485

Connector	Terminal Block
Signals	TDA(-), TDB(+), RDA(-), RDB(+), GND
Modes	2-wire and 4-wire
Termination	120 (switchable)

ISOLATION

Lines Protected	Data lines
Method	Optical
Rating	2,000 V

SURGE SUPPRESSION

Lines Protected	Data lines
Method	TVS
Rating	7.5W bi-directional avalanche breakdown device 500W peak power dissipation
Response Time	< 1 pico-second

INDUSTRIAL BUS

Modbus	ASCII/RTU
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Learn More!

READ ON!

RS-485 Problem Solver

www.bb-elec.com/485ProblemSolver



*Carrier data charges may apply.

ACCESSORIES

MDR-40-24 - DIN Rail Mount Power Supply 24VDC, 1.7 A output power

9PAMP6 - 6 ft. (1.8 m) 232 DB9 male to DB9 female serial cable

Electronics Datasheet User Guide

Marcel A. Müller



Electronics Datasheet User Guide:

Reviewing **Electronics Datasheet User Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Electronics Datasheet User Guide**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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stress and strain analysis, this Fourth Edition presents stress concentration factors both graphically and with ... Stress Concentration Factors | PDF Chart 4.2 Stress concentration factors for the tension of a thin semi-infinite element with a circular hole near the edge (Mindlin 1948; Udoguti 1947; Isida ... Table A-15 Charts of Theoretical Stress-Concentration ... by A Figure · Cited by 4 — Source: R. E. Peterson, Stress-. Concentration Factors, Wiley,. New York, 1974, pp. 146, 235. The nominal bending stress is $\sigma_0 = M/Z_{net}$ where Z_{net} is a reduced. Peterson's Stress Concentration Factors, Third Edition Dec 13, 2023 — Peterson's Stress Concentration Factors establishes and maintains a system of data classification for all of the applications of stress and ...