BB-232CL9R



Introduction

Model BB-232CL9R is a port-powered RS-232 to current loop converter. No external power required for passive loop installations, but a power supply is required to generate an active loop (power supply sold separately).

Current Loop Explained

Current loop devices use Current On or Curre nt Off to transmit binary digits. Current loop signals can often transmit over circuits that serial signals can't traverse reliably, due to distance, marginal conductors and electrical noise.

Current loop converters from Advantechinterface RS-232 to the most common current loop ports - 20mA with open circuit voltages up to 30 V - at a maximum baud rate of 19.2 kbps. High speed o ptical isolators couple and isolate Transmit and Receive data. All Advantech current loop converters have a transmit (T+ and T-) loop and a Receive (R+ and R-) loop. Each loop may be operated as an active or passive loop. When the converter needs to provide the loop current, a 12 VDC power supply is required for the current loop side.

Current Loop to Serial Converter

Features

- Optically isolated digital current loop to serial conversion
- Baud rates up to 19.2 kbps
- Inline installation
- Transmit (T+ and T-) loop and Receive (R- and R-) loop
- Each current loop may be operated active or passive
- · Designed for 20mA digital current loop
- Power supply required, not included, sold separately

Ordering Information

Model No.	Serial Connector	Current Loop Connector	Power Source for Serial Side
BB-232CL9R	DB9 Female	Terminal Block	Port-powered or external
			power supply (sold separately)

Accessories - Sold Separately

BB-SMi6-12-V-ST - Power Supply, 12Vdc, 500 mA, stripped and tinned leads, Level VI

Specifications

Serial Technology		
Data Rate	19.2 kbps, maximum	
RS-232		
Connector	DB9 female	
Signals	TD, RD, GND	
Current Loop		
Connector	Terminal block	
Signals	T+, T-, R+, R-, GND	
Power		
Source	Terminal block	
Input Voltage	12Vdc @ 100 mA	
Meantime Between Fa	ilures (MTBF)	
MTBF	714354 hours	
MTBF Calc. Method	MIL 217F Parts Count Reliability Prediction	
Environmental		
Operating Temperature	0 to +70 °C (+32 to +185 °F)	
Storage Temperature	-40 to +85 °C (-40 to +185 °F)	
Operating Humidity	0 to 95%, non-condensing	
Regulatory – Approval	s / Standards / Directives	
FCC Part 15, EN 55032 C	Class A Emissions	
2011/65/EU amended by (RoHS)	(EU) 2015/863 Reduction of Hazardous Substances Directive	



