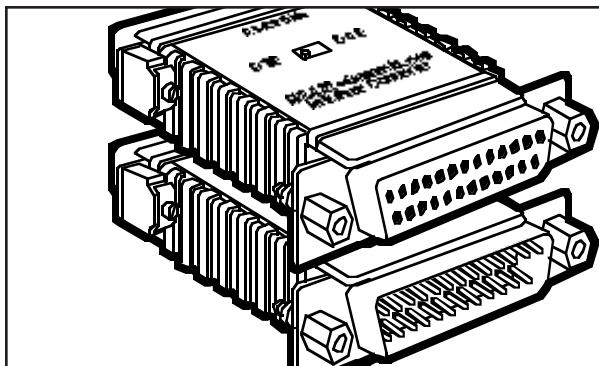




BLACK BOX[®]

NETWORK SERVICES

RS-232 ↔ CURRENT LOOP INTERFACE CONVERTER



Connect current-loop and RS-232 devices!

Key Features

- ▶ **Equipped with DB25 connectors, so it plugs directly into most RS-232 devices.**
- ▶ **DTE/DCE selectable.**
- ▶ **Designed for use with active 20-mA or 60-mA current-loop devices.**
- ▶ **Full-duplex async data rates to 115.2 kbps.**
- ▶ **Range up to 5 miles (8 km) over 24-AWG twisted pair.**
- ▶ **Current loop can be run through Converter's internal resistors to enhance performance.**
- ▶ **Call Tech Support to learn how you can attach it to passive devices, run 2-wire half-duplex, or use it as a line driver.**

Looking for a better way to get data from your ever-reliable current-loop devices to your newer computer systems? Try our RS-232↔Current Loop Interface Converter. For starters, it's designed to plug directly into most RS-232 devices. (It comes with either a DB25 male or female RS-232 connector; you *will* need an adapter to attach it to a PC with a DB9 serial port.) And it has a slide switch for easy DTE/DCE selection.

You can use twisted-pair cabling with a DB25 male connector at the Converter end—we can build this for you—to attach the Converter to an active 20-mA or 60-mA current-loop device for 4-wire full-duplex async data communication across as much as 5 miles (8 km) or at up to 115.2 kbps.

The Converter normally doesn't need an external power supply; when it's connected to an active current-loop device, it gets all the power it needs from the RS-232 data and control signals.

The Converter even has a pair of internal 560Ω resistors that you can route the current loop through to bring your signal levels in line if the cabling is too short.

Specifications

Compliance — FCC Part 15 Subpart J Class A, IC Class/classe A

Interfaces — EIA/TIA RS-232/ITU V.24/V.28, DTE or DCE (user-selectable), and passive 20-mA or 60-mA current loop

Protocol — Asynchronous

Operation — 4-wire full duplex; can also run 2-wire half-duplex, but call for tech support

Line — 19- to 26-AWG twisted pair

Data Rate — Transparent to data rates up to 115.2 kbps

Maximum Distance — Up to 5 miles (8 km) on 24-AWG twisted pair

User Control — (1) Top-mounted DTE/DCE slide switch

Connectors —
 CL060A-M: (1) DB25 M for RS-232, (1) DB25 F for current loop;
 CL060A-F: (1) DB25 F for RS-232, (1) DB25 M for current loop

Isolation — 2500 Vrms with opto-isolators on the line side

Power — From RS-232 data and control signals; requires 12 VDC on certain pins of the current-loop interface in order to be used with passive current-loop devices or as a line driver (call for technical support)

Max. Altitude — 4572 m (15,000 ft.)

Temperature Tolerance — 0 to 60°C (32 to 140°F)

Humidity Tolerance — 5 to 95% noncondensing

Size — 2H x 5.3W x 5.6D cm (0.8"H x 2.1"W x 2.2"D)

Weight — 48.3 g (1.7 oz.)

Ordering Information

ITEM	CODE
RS-232↔Current Loop Interface Converter:	
DB25 Female on RS-232 Side	CL060A-F
DB25 Male on RS-232 Side	CL060A-M
PC Adapter, DB25 Male to DB9 Female	FA520A-R2
<i>Refer to our catalog or www.blackbox.com for a wide variety of other RS-232 and current-loop equipment.</i>	