

Overview

The S717D and S7717D digital current loop transmission system provides superior noise-free transmission of the 20 mA standard, suitable for use in many applications including those found in communications and monitoring systems. A complete system consists of transmitter and receiver operating over one or two single mode or multimode fibers. The S717D model features multimode operation, while the S7717D model operates over single mode fiber.

Accurate Data Transmission

Utilizing high-speed data conversion and digital transmission, the system provides highly accurate data transmission. The units can be configured as active or passive receivers and drivers.

Superior Diagnostics

The SMARTS™ diagnostic technology provides built-in diagnostic LEDs for monitoring data and optical signal strength.

Standard Features

- Two-way data transmission over one or two single mode or multimode fibers
- 20 mA digital current loop
- Selectable active/passive receivers and drivers
- Asynchronous operating mode
- 18 dB optical budget
- SMARTS™ diagnostics

Two-Way Digital Current Loop

S717D and S7717D



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Specifications

Data	S717D (Multimode)	S7717D (Single Mode)
Channels	1 duplex	
Format	20 mA digital current loop	
Baud Rate	20 kbps	
Impedance	<5 ohms	
Operating Mode	Asynchronous	
Bit Error Rate	<1.0E-9	
Optical		
Mode	Multimode	Single Mode
Optical Budget*	18 dB	18 dB
Emitter	LED or Laser	
Operating Distance**	15 mi (25 km)	37 mi (60 km)
	(depending on model)	
Wavelength	850 nm and/or 1300 nm	1310 nm and/or 1550 nm
	(depending on model)	
Gain Control	Optical Automatic Gain Control (OAGC)	
Transmitter Launch Power	-14 dBm minimum	-14 dBm
Receiver Sensitivity	-32 dBm minimum	-32 dBm
Electrical		
Input Power	13.5 VDC regulated	
Current Requirement	350 mA	
Power Consumption	5 W	
Power Factor	3	
Protection	Solid-state short circuit protection	
Environmental		
Operating Temperature	-40 to 167 °F (-40 to 75 °C)	
Maximum Humidity	95% relative, noncondensing	
Mechanical		
Dimensions, Rack Units	1 slot (1.0")	
Weight	0.6 lbs (0.27 kg)	
Construction	Aluminum	

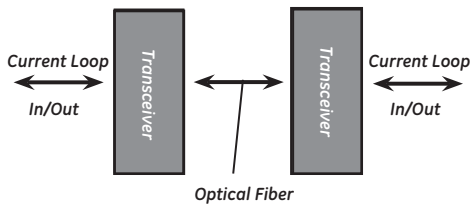
AGENCY COMPLIANCE



MADE IN THE USA

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

Related Diagram



Ordering Information

Use the Configurator below to select the options available for this product.

S717D - RST

Product Type	No. of Fibers	Optical Wavelength
T Transmitter	1 Fiber	AddL here only if ordering
R Receiver	2 Fibers	High Order Wavelength
Omit for Transceiver (Transceiver only)		
(2 Fiber Transceivers only)		

S7717D - R

Product Type	Connector Type	No. of Fibers	Optical Wavelength
T Transmitter	FC FC Type	1 Fiber	AddL here only if ordering
R Receiver	ST ST Type	2 Fibers	High Order Wavelength
Omit for Transceiver			(Transceiver only)
			(2 Fiber Transceivers only)

* Optical Budget based on 62.5 μm fiber, for 50/125 μm fiber subtract 3 dB.

** Operating distance is approximate and assumes best fiber. It will be affected by the type and number of splices in the fiber. Refer to update No. TB00-005, which can be found at www.gesecurity.com

As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit GESecurity online at www.GESecurity.com or contact your GE Security sales representative. S717D-2006-09-2



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