BIT ERROR RATE TESTER
MP8931A

CE GPIB

MP8931A is the general-purpose BIT ERROR RATE TESTER which can be used in various fields dealing with digital data, such as digital broadcasting, mobile communications and digital circuits.

Features
● Clock frequency: 1 kHz to 155 MHz
● Pseudo-random (PN9/15/23) and ALL0/1, 1010 fixed pattern measurement

● NRZ (TTL-Clock/Data/Enable) I/F and DVB-ASI*, DVB-SPI*
● Selectable error rate measurement part in an DVB I/F data packet is possible
● Error insertion
● GPIB/RS232C I/F
● Small design (thin case)
∗ DVB-ASI: Digital Video Broadcasting - Asynchronous Serial Interface
∗ DVB-SPI: Digital Video Broadcasting - Synchronous Parallel Interface

Specifications

Interface	NRZ, DVB-SPI, DVB-ASI
Remote interface	GPIB, RS-232C
Internal clock frequency	1 kHz to 155 MHz
External clock input	1 kHz to 155 MHz, TTL/ECL, 75 Ω/1 MΩ (NRZ, DVB-SPI)
Test patterns	PN9, PN9_INV, PN15, PN15_INV, PN23, PN23_INV, ALL "0", ALL "1", "1010"
Error insertion	Nothing, Manual, Rate (10^{-3}, 10^{-4}, 10^{-5}, 10^{-6}, 10^{-7})
Measurement time/Bit setting	Measurement time (0 to 59 seconds, 0 to 59 minutes, 0 to 999 hours), Bit setting (10^{-3} to 10^{-15}), Manual
Auto sync	On/Off
DVB interface packet	204: (1) + 187 + (16) bytes 188: (1) + 187 bytes 204: (1 + 3) + 184 + (16) bytes 188: (1 + 3) + 184 bytes 204: (1) + 203 bytes 204: (1 + 3) + 200 bytes ∗DVB-ASI, DVB-SPI
Through-put setting	1 MHz to 27 MHz (DVB-ASI)
LEDs	Counting, Syncloss, Signalloss, Errors
Display indication	"Error rate", "Error/All data" switchable indication, "Over flow" indication
Display control	Display-Off, Bright control
Setting data auto-saving	Auto-saving the latest parameters which are set before power-off and Auto-setting on the next power-on.
Output monitorable/disable	Output terminal, setting the able/disable of output
Dimension and mass	426 (W) x 88 (H) x 451 (D) mm, ≤15 kg
Power	85 to 250 Vac, 47.5 to 63 Hz, ≤50 VA
Operating temperature	0˚ to +50˚C
EMC	EN61326: 1997/A2: 2001 (Class A), EN61000-3-2: 2000 (Class A), EN61326: 1997/A2: 2001 (Annex A)
LVD	EN61010-1: 2001 (Pollution Degree 2)