

[OP-SB89 series comparison table]			
Model	OP-SB89G	OP-SB89E	OP-SB89
Measurement port	Port A and B Monitoring 1CH of Ethernet communication or PoE	Port A, B, C, and D Monitoring 2CH of Ethernet communication simultaneously	Port A and B: Monitoring 1CH of Ethernet communication or PoE Port C acts pseudo-PD port of class A or for cable testing.
Interface	10Base-T / 100Base-TX / 1000BASE-T		10Base-T / 100Base-TX
Fail-safe tap circuit*1	Between port A and B	Between port A and B, port C and D	Between port A and B
Monitor function*2	Measures Ethernet frames and record them.		Measures Ethernet frames and record them.*3
Time Stamp	13 digits, minimum resolution: 40ns		13 digits, minimum resolution: 1μs
Recordable frames*4	Max. 48,000 to 1,048,000 frames (equivalent to max.100Mbyte)		Max. 48,000 to 1,388,000 frames (equivalent to max.100Mbyte)
Suitable frame size	60 to 9Kbyte		60 to 2047byte
Translatable protocols	IPv4, ARP, ICMP, TCP, UDP, and DHCP	IPv4, ARP, ICMP, TCP, UDP, DHCP, and EtherCAT	IPv4, ARP, ICMP, TCP, UDP, and DHCP
Trigger	Level match with an external input or detection of a specified frame It can stop measurement by the trigger.		Level match with an external input It can stop measurement by the trigger.
Filter function	You can monitor only the specified frame by filtering.		
Search function	It searches and counts only the specified frames.		
Auto save function	It can automatically records measured data into the external storage media as a communication log file.		It can automatically records measured data into the external storage media as a communication log file. (Only when it runs in REPEAT mode.)
Utility software	A software to convert the log file into pcap format is provided. Supported OS □ Windows 7/8/8.1/10		
PG function	It can output arbitrary packets in wire rate from the port A.	It can output arbitrary packets in wire rate from the port A or port B.	-
	You can transmit up to 16 kinds of packets for the specified times or continuously. A frame gap can be set for each packet.		
Delay time measurement function	-	Measures the time lag between the receiving timings of specified ports in μs unit. (Current, Max, Min, and Average delay times are displayed.)	-
Statistic function	This function keeps statistics of 2 kinds of frame counters by specified interval (0 to 240 minutes), and display it in a graph. All the frame counter values can be displayed in real time.		
PoE measurement	Measurement and continuous logging of the power consumption / Voltage / Current / Power (Alternative A/B, power supply port, polarity), OK/NG statement between devices of PoE (IEEE802.3af) / PoE+ (IEEE802.3at). Interval: 1ms-1s. Max recording time: 400 million. Voltage: 0-60V (□)1% F.S.). Current: 0-600mA (□)2% F.S.).	-	Measurement and continuous logging of the power consumption / Voltage / Current / Power (Alternative A/B, power supply port, polarity), OK/NG statement between devices of PoE (IEEE802.3af). Interval: 1ms-1s. Max recording time: 400 million. Voltage: 0-60V (□)1% F.S.). Current: 0-380mA (□)2% F.S.).
PSE detection	-		Detect the PSE connection to the Port C and light the LED.
Cable test function	-		Measures the cable length (3-120m), or detects a short circuit and split pair.
PING function	Transmits the PING commands and displays the response.		
Port blink function	It makes blink periodically the link LED of the HUB connected with the board.		
Accessories	Interface expansion board, line state sheet, LAN cable, Utility CD		

*1 It does not affect the communication between the devices even though the power of analyzer is turned off.

*2 Some capturing leakage may occur when monitoring the communication on the high load network.

*3 It works by ONLINE mode (automatically stops measurement when the memory turns to be full) or REPEAT mode (continuous recording).

*4 The frames are recorded with the additional data.