

PSB III (Code 6001)
Pulse Splitter Box III



OVERVIEW

With the Pulse Splitter Box PSB III pulse data contained in the 16th bit of a digital audio data stream can be read out. They are made available as separate signals at a BNC output.

Moreover, PSB III allows to insert external pulse signals into the 16th bit of a data stream. The feed-through of 24 bit data is also possible.

The pulse inputs and the digital part of PSB III are galvanically separated.

Delivery Items

- PSB III (Code 6001):
Pulse Splitter Box III
- Instructions for use

Accessories

(not included in the delivery)

- PSH I.1 (Code 1364):
Power supply unit for PSB III
- CBB I.2 (Code 1175-2):
Cable BNC <-> BNC, 2 m
- CXX II.3 (Code 5177-3):
Cable AES/EBU, XLR male <-> XLR female, 3-pin, 2.95 m
- CXX II.1 (Code 5177-1):
Cable AES/EBU, XLR male <-> XLR female, 3-pin, 1 m

Special Features

- Read-out of pulse data from digital signals
- Insertion of pulse data into digital signals
- AES/EBU format for audio data
- Separate on/off control of pulse feed-in for both channels
- Galvanic separation of pulse input and digital part

Applications

- Read-out of pulse data for further processing when external devices are used
- Time signal synchronization between ACQUA, measurement front ends and other devices, e.g. HAE-car/HAE-BGN



Rear view of PSB III

Technical Data

Operating conditions

Voltage supply	5 Volt +- 5% at max. via PIN 2 (5 Volt) and 1 (Ground) 9- 16 Volt at max. via PIN 4 (12 Volt) and 1 (Ground)
Current consumption	200 mA (5V) 230 mA (9-16V)
Working temperature	0 to 50° Celsius / 32 to 122° Fahrenheit

AES / EBU Input

Connector	XLR socket
Norm	AES3, IEC60958, EIAJ CP1201, galvanically separated
Sampling frequencies	32 kHz, 44.1 kHz, 48 kHz
Bit rate	16 and 24 bit

AES / EBU Output

Connector	XLR plug
Norm	AES3, IEC60958, EIAJ CP1201, galvanically separated
Sampling frequencies	32 kHz, 44.1 kHz, 48 kHz (synchronized with input)
Bit rate	16 and 24 bit

PULSE Input (2x)

Connector	BNC
Level	TTL level, switching threshold at 1V, galvanically separated
Impedance	47 kOhm
Input capacity	100 pF
Signal form	Rectangle
Pulse back	> 2,6µs
Bandwidth	< 19kHz (at Pulse-Pause ratio 1:1)

PULSE Output

Connector	BNC
Level	TTL level, galvanically separated
Impedance	1 kOhm

All inputs and outputs are short-term protected from excess voltage.

All outputs are permanently proof against short-circuit.

Displays (2x)

Pulse input activated	LED active
Pulse input, pulse detected	flashing in division ratio (1:32) when pulse is detected

Mechanical properties

Weight	750g
Dimensions (W x D x H)	170mm x 89mm x 44mm

represented by