

# PEGASEM Splitbox Series

Signal Distribution Units for Speed Sensors



## Overview

For practical reasons most PEGASEM speed sensors are equipped with a single multi-path connector, and sensors are shipped with an open-ended cable. This allows the user to choose and configure a corresponding connector matching the user's specific application. In cases when BNC connectors and standard power supply cables are sufficient, a PEGASEM Splitbox offers an easy way to quickly connect the speed sensor and the test equipment. Each box contains an RC low pass filter on the analogue speed output which reduces crosstalk noise from the digital pulse edges running through a parallel wire in the same cable. Currently four types of interconnection boxes are available.

## SPLITBOX 1 (SB1)



The Splitbox 1 (SB1) is a low-cost version in a small plastic case offering three BNC sockets for sensor output signals and has further connectors for RS232, power supply and a green LED as a power monitor. The SB1 comes with a 1m RS232 cable and DSUB-9F connector and a 2m power supply cable. The power cable is available in three connector configurations and a

2m standard length. For details see the table on the next page.

## SPLITBOX 2 (SB2)



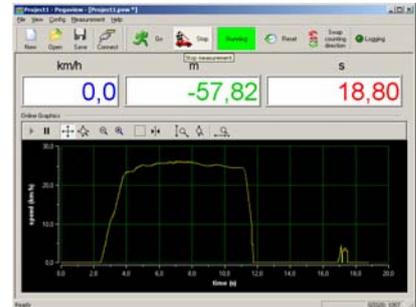
The Splitbox 2 (SB2) has the same functionality as the SB1 but comes in a very robust black powder coated aluminium die-cast enclosure. It has two alternate power supply connectors, one with a lock nut and one as a push-pull type low voltage power socket.

## SPLITBOX 3 (SB3)



The Splitbox 3 (SB3) is a USB splitbox variant where the RS232 port of the sensor is internally converted to USB. It comes in a black aluminium enclosure with a host driver for WIN2K/XP and a copy of PEGAVIEW software for MS Windows. PEGAVIEW has a graphic display for the sensor speed coming over the serial interface and allows changing the sensor configuration on those models with user accessible

settings. The connector configuration is similar to SB2.



Main screen of PEGAVIEW software

## SPLITBOX 4 (SB4)



The Splitbox 4 (SB4) has been designed for tests with four WSS sensors, e.g. ABS testing. On each channel, two BNC sockets are connected to pins 6 & 8 of the sensor cable. Thus, the phase and anti-phase signal of a WSS2/3 sensor is routed to the sockets or the pulse and direction output in case of a WSS4 sensor. All four sensors are supplied from a common power supply rail.

## General

SB1, SB2 and SB4 do not contain any active electronic circuits or signal converters. Sockets labelled "Analogue OUT" for example will not carry an analogue signal output if the sensor does not supply it.

## Technical Data

	SB1	SB2	SB3	SB4
<b>Connectors for</b>				
Speed sensor Input	yes	yes	yes	yes
Speed pulse (wire 6)	BNC	BNC	BNC	4xBNC
Analogue out (wire 3)	BNC	BNC	BNC	-
Auxiliary out (wire 8)	BNC	BNC	BNC	4xBNC
PWRIN-A (wire 7)	-	M12 w lock nut	M12 w lock nut	M8 w lock nut
PWRIN-B (wire 7)	PWR jack 5/2.1	PWR jack 5/2.1	PWR jack 5/2.1	-
RS232 I/O (wires 4&5)	Stereo jack <sup>1)</sup>	DSUB 9F	-	-
USB	-	-	USB-B	-
Power indicator LED	yes	yes	yes	yes
Mechanical size	72x50x30 mm	110x74x35 mm	110x74x35 mm	126x68x25 mm
Enclosure material	ABS plastic	Alum. die-cast	Alum. die-cast	ABS plastic
Enclosure colour	black	black	black	black

<sup>1)</sup> Adapter with DSUB-9-F connector is included.

## Ordering Information

	SB1	SB2	SB3	SB4
<b>Power cable options</b>				
Open wires, 2m	SB1-OE-2	SB2-OE-2	SB3-OE-2	SB4-OE-2
Banana plugs, 2m	SB1-BAN-2	SB2-BAN-2	SB3-BAN-2	SB4-BAN-2
Cig. Lighter Connector, 2m	SB1-CLC-2	SB2-CLC-2	SB3-CLC-2	SB4-CLC-2



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