

**SVA II.0 (Code 3360)**

Multi-function adapter (CAN, RS232, GPS, remote control RC X.1-V1) for connection to the Aux 1 interface of SQadriga II



**Overview**

The multi-function adapter SVA II.0 can be connected to the Aux 1 interface of SQadriga II and offers the possibility to receive CAN or OBD-2 data as well as a GPS signal and to control an artificial head – all at the same time.

SVA II.0 replaces the three adapters CLD VII.1, CLD VII.8 and CLG VII, each of which can be connected to SQadriga II via the Aux 1 interface, but cannot be used simultaneously.

Furthermore, the wired remote control RC X.1-V1 can be connected in order to start and stop recordings with SQadriga II.

The SVA II.0 features the PPS function (Pulse Per Second), which allows short recordings made with multiple SQadriga II units that are not connected to each other (e.g. via AES/EBU or crosslink) to be synchronized retroactively. This requires that each SQadriga II is equipped with an SVA II.0 and a stable GPS signal is received.

**Features**

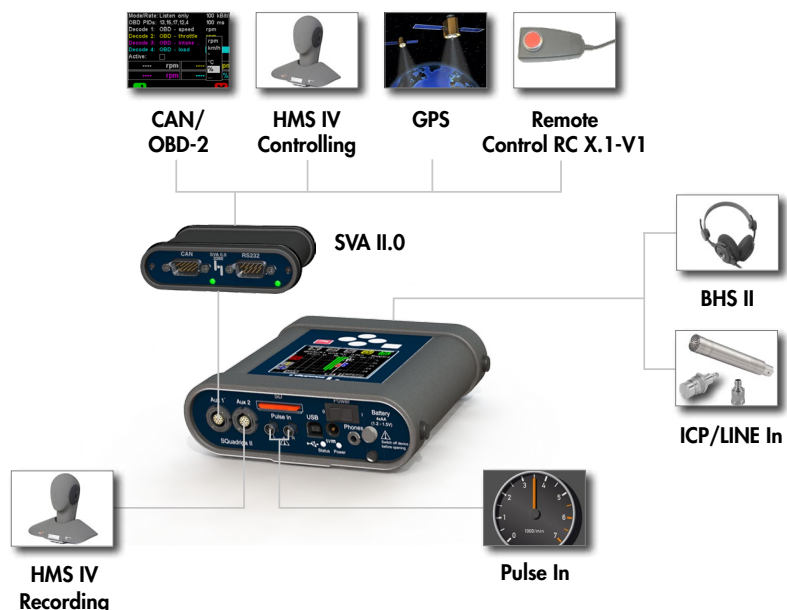
- Multi-function adapter for connection to the Aux 1 interface of SQadriga II (requires SQadriga II, version C and firmware 2.0 or later)
- Extended functionality of SQadriga II due to simultaneous use of several functions supported by the Aux 1 interface:
  - CAN/OBD-2 interface: Acquisition of CAN bus and OBD-2 data; OBD-2 via CAN according to ISO 15765-4 requires the CDO X.xx cable (Code 3786)
  - RS232 interface: Configuration of the recording parameters of an HMS III or HMS IV artificial head (requires an additional RS232 cable CAB I.xx; the artificial head recordings require an AES/EBU adapter cable CLX VII.1)
  - GPS interface: Recording of GPS coordinates and speed, saving of the data in a channel (an active GPS antenna is included). Receiving GPS signals, the PPS function (Pulse Per Second) is available. PPS can be used for synchronization of recordings with multiple SQadriga II units not connected to each other.
  - Remote control interface: Connection of the wired remote control RC X.1-V1 (Code 9850-V1) for starting and stopping recordings (in stand-alone mode of SQadriga II)
- Power supply via SQadriga II

**Scope of supply**

- SVA II.0 (Code 3360)  
Multi-function adapter for SQadriga II
- Antenna for receiving GPS data

**Optional**

- CDO X.xx (Code 3786-xx)  
Cable D-Sub 9-pin ↔ OBD-2, max. 3 m (118")
- CLX VII.1 (Code 3352)  
AES/EBU adapter cable, 1 m (39.3")
- CAB I.xx (Code 5475-xx)  
Cable D-Sub. 9-pin male ↔ D-Sub. 9-pin female (RS232), max. 3 m (118")
- RC X.1-V1 (Code 9850-V1)  
Remote control for connection to the multi-function adapter SVA II.0 (Binder)



Sample configuration: SQadriga II and the multifunction adapter SVA II

## Technical Data

### General

Connections:	2 x D-Sub 9-pin / SMA / Binder 7-pin ↔ LEMO 10-pin (AUX 1)
Power supply:	3.3 V (±10 %), the power is supplied by SQUADRIGA II; 170 mA, max.
Cable length:	1 m
Dimensions (without cable):	99 x 78 x 29 mm (3.9" x 3.1" x 1.14") (WxDxH)
Weight:	286 g (0.63 lb)
Temperature operating:	-20 °C to 50 °C (-4 °F to 122 °F) (0 to 90 % r.h., not condensing)
Temperature storage:	-20 °C to 70 °C (-4 °F to 158 °F)

### CAN/OBD-2 interface

Connection:	D-Sub 9-pin, male
Bit rate CAN bus:	up to 1 Mbps
Electrical isolation:	yes
CAN:	CAN high-speed according to ISO 11898-2
Bit rate CAN bus:	auto detect (in listen-only mode), 1 Mbit/s; ; 800, 666, 500, 250, 125, 100, 50, 20, 10 kbit/s
Identifier (CAN):	11 bit (CAN 2.0A), 29 bit (CAN 2.0B)
Further CAN signals:	decoding/display according to manufacturer-specific dbc databases (not included)
OBD-2 via CAN according to ISO 15765-4:	request/display of current quantities (RPM, speed, ...)

The user must install the line termination in a connector of the user-specific CAN/OBD-2 cable, as needed.

### RS232 interface

Connection:	D-Sub 9-pin, male
Electrical isolation:	no
Baud rate:	9600 baud

### SGPS interface

Connection:	SMA
Chip set:	MTK MT3339
Frequency:	L1; 1575.42 MHz
Sensitivity:	operation: -165 dBm
Protocol:	NMEA0183
Acquisition:	cold start: min. 35 sec. warm start: 33 sec.
Update rate:	5 Hz

### Remote control interface (RC X)

Connection:	Binder 7-pin
Connection of the wired remote control RC X.1-V1. See data sheet RC X.	