



Features

- Impedance converter with high input resistance for measuring high-impedance voltage sources with SQuadriga II, *labV12* respectively *labV12-V1*, as well as *labV6* respectively *labVF6*
- Electrical isolation of the power supply

Scope of Supply

- SCU-V2 (Code 3394)
Adapter for connecting high-impedance voltage sources to SQuadriga II, *labV12* (*labV12-V1*) and *labV6* (*labVF6*)
- CMD II.03 (Code 9837)
Breakout adapter for the inputs and the power supply [via power supply]
D-Sub 9 pin ↔ 2 x BNC / 1 x XLR
4 pin, 30 cm (11.8")
- 9-pin D-Sub plug for making a custom breakout cable (inputs and power supply)

Optional

- Power supply 15 V / 60 W / XLR
4-pin for SCU-V2
- CBB I.xx (Code 1175-xx)
Cable BNC
BNC ↔ BNC
- CDB II.1 (Code 3556)
Breakout cable
D-Sub 25-pin ↔ 6 x BNC
[SCU-V2 ↔ *labV12* / *labV12-V1*]
- BPB I.8 (Code 9838)
Battery holder for 8 x AA to power supply the SCU-V2 via XLR

DATA SHEET

SCU-V2 (Code 3394)

Adapter for connecting high-impedance sensors to SQuadriga II, *labV12* respectively *labV12-V1* and *labV6* respectively *labVF6*

Overview

The SCU-V2 adapter is a two-channel impedance converter.

SCU-V2 is used for measuring high-impedance voltage sources with SQuadriga II and the HEAD*lab* modules *labV12* and *labV6*.

A breakout adapter for the inputs and the power supply of the SCU-V2 is included. With the also included plug, users can make a custom breakout cable according to their needs.

The power input of the SCU-V2 is electrically isolated.

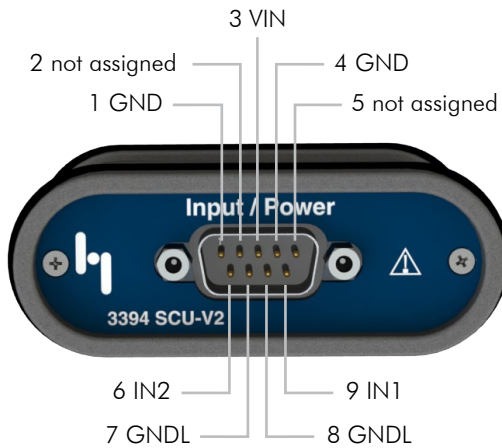


labV6 and *labV12* are input modules of the HEAD*lab* multi-channel 24-bit front-end system for mobile data acquisition.



SQuadriga II is a mobile 24 bit recording and playback system.

Pin assignment



| Pin | Name | Function |
|-----|------|--|
| 1 | GND | Ground for power supply input |
| 2 | - | Not assigned |
| 3 | VIN | Power supply input for SCU-V2; voltage range: 9-30 V |
| 4 | GND | Same as pin 1 |
| 5 | - | Not assigned |
| 6 | IN2 | Input channel 2 |
| 7 | GNDL | Electrically isolated ground for input channel 2 |
| 8 | GNDL | Electrically isolated ground for input channel 1 |
| 9 | IN1 | Input channel 1 |

Technical Data

General

| | |
|------------------------|--|
| Interfaces: | D-Sub 9-pin 2 x BNC |
| Dimensions: | 73 mm x 85 mm x 28.5 mm (2.9" x 3.34" x 1.12") (WxDxH) |
| Weight: | 145 g (0.33 lb) |
| Operating temperature: | -10 °C to +60 °C (14° F to 140° F) |
| Storage temperature: | -20 °C to +70 °C (-4° F to 158° F) |

Inputs

| | |
|-------------------------------|------------------------|
| Interfaces: | D-Sub 9-pin |
| Input voltage: | 9 to 30 V DC |
| Power consumption: | 1.1 W |
| Max. input level: | ±12 V |
| Input impedance: | 1 MOhm / 10 pF |
| S/N: | ≥130 dB(V) (A-rated) |
| Noise level (noise floor): | ≤ -115 dB(V) (A-rated) |
| THD+N: | ≤ -105 dB |
| Crosstalk: | ≤ -100 dB |
| Gain tolerance vs. frequency: | ≤ ±10 mdB(V) |
| Offset: | ≤ ±60 μV |

Outputs

| | |
|-------------|---------|
| Interfaces: | 2 x BNC |
|-------------|---------|