USB-C Sensor Adapter

USB-C Sensor Adapter 100-6000

Description

The USB-C Sensor Adapter is a highly integrated USB-RS-232 bridge controller that enables communication with sensors at the desired baud rate. It allows users to quickly connect a sensor via a USB 2.0 full-speed interface, requiring minimal effort or technical expertise. Powered by the CP2102N chipset, this solution eliminates the need for complex firmware or driver development, providing fast and straightforward access to ARGO-HYTOS sensors through customized applications.

Key features

One of the adapter's standout features is its ability to integrate seamlessly with RS-232 devices. It supports all common baud rates, ensuring versatile compatibility with various sensors and instruments. Its robust design facilitates stable data exchange, making it suitable for both industrial and laboratory settings.

Setup and Installation

Setting up the USB-C Sensor Adapter is remarkably simple. Just connect a USB-C cable to the computer, then link the M12/8-pin connector to the target sensor or device. There is no need for additional firmware configuration, allowing you to get started with minimal effort. This approach makes the adapter an ideal choice for on-site technicians and field engineers who need a quick, reliable connection.

Power and Indication

The adapter features a built-in 24V step-up converter, eliminating the need for an external power supply. This not only reduces space requirements and costs, but also enhances portability when working in remote environments. Additionally, the device includes LEDs to indicate the current status of the chipset as well as transmit, receive and convert output activity. These visual cues provide immediate feedback, helping users to quickly diagnose and troubleshoot any potential connection issues.

Application

Thanks to its plug-and-play design and integrated power converter, the USB-C Sensor Adapter is a user-friendly tool for industrial and laboratory use, routine maintenance, real-time monitoring and detailed diagnostics. It streamlines workflows and data collection.

Technical data

Parameter	Size	Unit
Electrical connection		
USB-Sensor adapter input	USB-C	
USB-Sensor adapter output	M12x1, 8-pole, female	
Wetted materials	ABS, polyurethane resin, chemical nickel/gold (ENIG), soldering tin (Sn96,5Ag-3Cu0,5NiGe), aluminum oxide, glass (DuPont QQ550), gold, silver-palladium, sapphire	
Protection class	IP40	
Power supply		
Input	5/3	V/A
Output	24/625	V/mA
Interface	RS-232	
Weight	0.1 (0.22)	kg (lbs)

Order Key	
USB-C Sensor Adapter	SCSO 100-6000

Accessories

M12x1, 8-pole, male to M12x1, 8-pole, female (1 m)
USB-C to USB-C cable (0.5 m)

Software and application

A PC software for data recording and evaluation of the measured values can be downloaded from our website at **https://www.argo-hytos.com/products/sensors-measurement/software.html**

Supporting devices

Product	Order code
LubCos H_2O	SCSO 300-1000
LubCos H_2O+ II	SCSO 100-1010
LubCos Level 200	SCSO 150-1200
LubCos Level 375	SCSO 150-1375
LubCos Level 615	SCSO 150-1615
LubCos Guard	SCSO 400-1000
OPCom FerroS	SPCO 500-1000
OPCom Particle Monitor	SPCO 300-1000
OPCom Particle Monitor for phosphate ester	SPCO 300-2000
OPCom Particle Monitor without display	SPCO 300-1200

* Ensure that the power source (USB-C) supports an output of 5 V / 3 A in standard USB-C mode, as lower current levels (e.g. 5 V / 0.5 A or 1.5 A) may be insufficient for proper device operation.