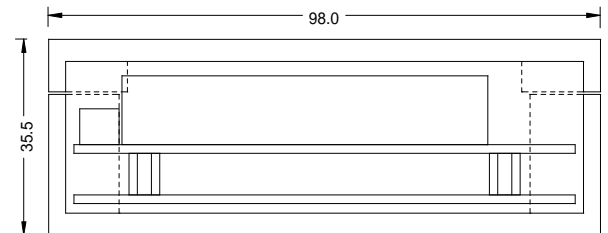
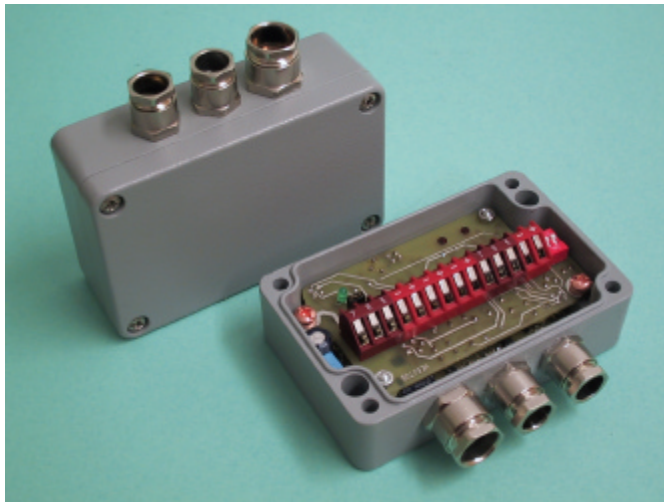


# Signal adapter hol500

## DUO-Signal-Converter



## Description

The DUO-Signal-Converter provides the option of recording two different types of measurement quantities independently of each other and preparing them for further processing.

Since you can connect two different sensors to the instrument, the simultaneous monitoring of vibration and temperature, for example, is possible with one instrument. The advantage of this is that by monitoring two measurement quantities, you can achieve double the safety for your machines and the installation costs are lower.

The evaluation electronics in the instrument converts the incoming sensor signals, which are then output in the form of 0 to 20mA or 4 to 20mA analog signals. The warning devices that follow can then be actuated. Thanks to this early detection, increased wear and the concomitant costs are avoided, and the life of the monitored machines or equipment is extended.

A high degree of reliability is ensured by the integrated sensor, the robust aluminum die cast cabinet as well as the simple installation and operation of the DUO-Signal-Converter.

## Application fields

In all technical applications in which oscillations occur, the DUO-Signal-Converter is a valuable aid. Here are a few examples for vibration monitoring:

- Fans, pumps and blowers
- Jolters, decanters and separators
- Hoisting and transportation devices
- Drives
- Machine tools, processing machines and production machines

# Signal adapter hol500

## DUO-Signal-Converter

---

The technical design of the DUO-Signal-Converter varies according to the requirements that you place on the device. Many physical or electrical values can be registered and processed with suitable sensors. Measuring sensors for pressure, strength, sound, light, temperature but also fill level, speed or revolutions can be combined meaningfully. The version described below includes vibration and temperature measurement. The connection for the temperature sensor (e.g. Pt100) can be built up in four wire technology.

Owing to its flexible structure, holthausen elektronik GmbH can fulfill customer wishes and produce specific versions. Should you have any questions, we are always at your service.

## Technical Data (example)

---

operation voltage	24V DC $\pm 10\%$
current input	max. 120mA
temperature range	0°C to 65°C
type of protection	IP 65
case	aluminium pressure-die-casting
case dimensions	98 x 34 x 64mm (B x H x T)
weight	approx. 480g

### vibration measuring

type of sensor	vibration sensor with constant current-supply (ICP)
sensor sensitivity	100mV/g
measuring value	vibration velocity in mm//s
measuring range	10mm/s, 20mm/s, 50mm/s or 100mm/s, switchable
frequency range	10 to 1kHz (-3dB)
filter	Butterworth, 60dB/dec resp. 18dB/okt
signal assessment	arithmetical mean value, adjusted to RMS
analog output	4 to 20mA, current source
load	max. 500Ohm

### temperature measuring

type of sensor	Pt100
sensor connection	2-, 3- or 4-cable circuit adjustable by jumpers in case
measuring value	temperature
measuring range	0°C to 100°C
signal assessment	arithmetical mean value
analog output	0 to 20mA, constant current
load	max. 500Ohm