

# UC Processor

Type KCD15918

## Easy-to-use Processing Unit

Designed for pitch and roll measurement in mobile vehicle dynamics testing.

- Converts height signals from HF sensors to pitch and roll angle
- Provides the option to connect a Correvit® S-350 2-axis optical sensor, which can be used with the pitch and roll system for additional slip-angle measurement
- UC Processor profile is designed to mount directly to a Correvit S-350 2-axis sensor electronics for easy handling
- Wide power input range from 10 ... 30 VDC
- No separate power supply required for the connected HF sensors
- Easy set-up via the included software

### Description

The CAN-based UC Processor is compatible with all HF height sensors that are used for pitch and roll measurement, and also enables quick connection of a Correvit S-350 2-axis optical sensor with gyro to deliver simultaneous slip angle measurement from the vehicle center of gravity.

Information acquired by the sensors is calculated and transmitted via the UC Processor to a data acquisition system, providing complete pitch and roll measurement in an easy-to-use system.

The device supports CAN Motorola and Intel formats and is equipped with an incorporated zero-set button for fast and easy zero setting of the pitch and roll angle, a termination resistor switchable via the included software, and LED indicators for CAN activity, power and reverse polarity.

All CAN outputs are protected against overvoltage and short circuit; user-specific configurations are possible.

The UC Processor is galvanically isolated against the power supply.

### Application

Designed for application in dynamic vehicle tests, which require precise measurement of the following parameters:

- Pitch and roll angle
- Pitch and roll rate
- Slip angle



### Technical Data

Power supply	VDC	10 ... 30
Sensor inputs and outputs		
CAN 2.0B inputs for HF sensors		4
CAN 2.0B inputs for S-350 sensors		1
CAN 2.0B output		1
PC interface: USB (Full Speed)		2.0
Indication LED for		
CAN busy indication		yes
Power supply connected indication		yes
Reverse polarity indication		yes
Update rate	Hz	250
Dimensions (LxWxH)	mm	180x125x65
Weight	grams	745

### Included Accessories

- UC Processor
- Power cable, l = 2 m
- Connection cable RS-232C, l = 2 m
- Connection cable USB, l = 2 m
- CAN Adapter for HF signal cable (4 pcs)
- Transport case, complete
- Multimedia CD incl. software & manuals

### Type/Art. No.

- KCD16134
- KCD10398
- KCD10380
- KCD13947
- KCD16135
- KCD17473

### Optional Accessories

- HF sensors and mounting equipment with transport case

### Type/Art. No.

on request

### Ordering Code

- UC Processor

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