CORRSYS DATRON Sensorsysteme GmbH

UC Processor

Easy-to-use Processing Unit for Pitch & Roll Measurement

- Converts height signals from CORRSYS-DATRON HF-xxxC 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 & 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 10V ... 30V DC
- Supports Motorola and Intel formats
- Termination resistor switchable via CORRSYS-DATRON Software
- Easy set-up via CORRSYS-DATRON Software
- No separate power supply required for the connected HF Sensors
- Incorporated zero-set button for fast and easy zero setting of the UC Processor
- LED indicators for CAN activity, power, and reverse polarity
- Optional display for online visualization of all output signals

The CAN-based UC Processor is compatible with all CORRSYS-DATRON height sensors that are used for Pitch & 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. An optional display enables viewing of all measured data online.

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Typical Technical Specifications:

Input voltage:	10V ... 30V DC
Sensor inputs:	HF1: CAN input for HF-xxxC Sensor HF2: CAN input for HF-xxxC Sensor HF3: CAN input for HF-xxxC Sensor HF4: CAN input for HF-xxxC Sensor S-350: CAN input for S-350 Sensor
CAN inputs for Sensors:	CAN V2.0B
CAN Output:	CAN V2.0B user-specific configuration possible All CAN Outputs are protected against overvoltage and short circuit
PC-Interface:	USB 2.0 full speed
Indication LED for:	CAN Bus busy indication Power supply connected indication Reverse polarity indication
Update rate:	250 Hz
Dimensions (l x w x h):	180 x 125 x 65 mm
Weight:	745 g

Pin Assignment

Short Overview of important pinouts

HF-xxxC Inputs:	Pin 2 = CAN-Low Pin 7 = CAN-High Pin 5 = HF-xxxC positiv Power Pin 9 = HF-xxxC negative Power
S-350 Sensor Input:	Pin 2 = CAN-Low Pin 7 = CAN-High
CAN output:	Pin 2 = CAN-Low Pin 7 = CAN-High

In a continous effort to improve our products, CORRSYS-DATRON reserves the right to change specifications without prior notice.

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