

DIGITAL INDUSTRIES SOFTWARE

Simcenter SCADAS Mobile Wheel force interface module

Simcenter/SCM-WFI2-KR/2406/20240625

Product Information Sheet

Summary

The WFI2-KR is a dual channel digital interface module to interface with the KISTLER ROADYN® 2000 and KiRoad Performance Wheel Force Transducer system. By means of a UTP connection, a synchronous acquisition of all relevant wheel force signals is supported:

- Forces in X, Y & Z directions
- Moments in X, Y & Z directions
- Angle & Angular speed
- Temperature of the wheel
- Internal Power supplies

A single WFI2-KR module supports up to two ROADYN 2000 or KiRoad racks, providing access to up to 8-wheel force transducers simultaneously per module.

Supported transducers



Typical applications



BENEFITS

- Support of two Kistler ROADYN2000® or KiRoad frames per module
- (combining a total of 8 complete Wheel Force Transducers
- Synchronous acquisition of WFT signals without loss of accuracy through clock drifts

FEATURES

- Access to 10 channels per Wheel Force sensor
- Rugged connection through LEMO connector
- Sample rates up to 1280 Hz

With the addition of more WF12-KR modules and Roadyn® System 2000 or KiRoad racks, larger number of wheels force transducers can be acquired synchronously.

The WF12-KR digital interface module is supported in Simcenter SCADAS Recorder and Simcenter SCADAS Mobile frames.

Pre-requisite for ROADYN 2000 racks is the plug-in card type 5621A6Q1 with Ethernet interface. The KiRoad device contains built in Ethernet interface.

Specifications WF12-KR

Input function

Dual LAN input for support of two Kistler Roadyn® System 2000 or KiRoad digital wheel force transducers (total of 8 wheels)

Connector:

Eight pole LEMO connector

Maximum input voltage (without damage):

40Vpeak continuously

Synchronization:

Through clock and trigger outputs

Available sampling rates:

1280 Hz, 1024 Hz, 819.2 Hz, 800 Hz and 640 Hz

Dimensions:

Occupies one SCADAS Mobile slot

Power consumption:

During normal operation: less than 4 W

Ordering information:

Support of Simcenter SCADAS Frames and Modules may be restricted in specific Simcenter Testlab application workbooks.

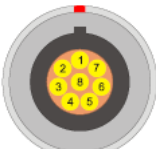
Please check with your local representative for full details.

SCM-WF12-KR: Simcenter SCADAS Mobile wheel force interface module.

Included accessories

Two, 50 cm BNC adapter cable

Two, 2 m STP07 CAT Ethernet cable

CONNECTION	DETAILS	REMARKS
8-pin LEMO: channels 1 and 2  Chassis = Analog Ground Not connected implicates: DO NOT USE	Connector type: LEMO-EGG.1B.308 Pin details: 1) MX2+ 2) MX1+ 3) Not connected 4) Not connected 5) Not connected 6) MX1- 7) MX2- 8) Not connected	Mating connector: LEMO-FGG.1B.308.CLADxx

