

# KiRoad wireless HDR

# Digital far field telemetry for RoaDyn S6 WFTs

Type 9813C1, 9822A1, 5262A...

The KiRoad Wireless HDR system consists of on-board unit Type 9813C1, wheel unit Type 9822A1 and rotary encoder Type 5262A...

The system provides wireless transmission of measuring signals and system information between the wheel force transducer (WFT) and the on-board unit in the vehicle.

- Data transmission via WLAN
- Fast installation no cabeling and no adaptions
- No protrusions from the vehicle
- Exchangeable battery with approx. 4h capacity at -20°C (for winter testing)
- Digital data output for all channels via DTI, CAN or Ethernet
- No extension antenna mandatory
- Configuration and online display of measurement signals via KiCenter software



	IEE 802.11n
	F <sub>x</sub> , F <sub>y</sub> , F <sub>z</sub>
	M <sub>x</sub> , M <sub>y</sub> , M <sub>z</sub>
	An
	A <sub>s</sub>
	temperature, battery voltage
Bit	16
Hz	1.000



Fig 1: RoaDyn S6 WFT with wheel unit



### Technical data onboard unit

Dimensions (LxWxH), approx.	mm	181x125x149
Weight	kg	2.5
Operating temperature range	°C	-20 50
Degree of protection (cable mounted)	IP40	IP40
Power supply	VDC	10 28
Power consumption max.	W	17
Data outputs		
Digital		DTI, CAN
Analog (8 signals, selectable)	V	±10/±5, (0 10, 0 5)
USB (full speed)		2.0
Ethernet TCP/IP		yes

# Technical data wheel unit

mm	184x184x62,8
kg	0.8
°C	-20 50
	IP65
	Lithium-ion battery
	>500
	>5
	>4
g	50
ms	538
	kg °C

Seite 1/2

This information corresponds to the current state of knowledge. Kistler reserves the right to make technical changes. Liability for consequential damage resulting from the use of Kistler products is excluded.

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## Rotary encoder

For measuring the rotation angle of RoaDyn WFTs.

- Easy mounting by fixing with two clamping pins
- High measuring accuracy through precise detection of the angular position
- Low angle error, as no vehicle body support is required
- No protrusions from the vehicle

# Technical data rotary encoder

Dimensions (LxWxH), approx.	mm	customized
Operating temperature range	°C	-40 170
Rotational speed (max.)	rpm	2,800
Accuracy	0	0.1

Included accessories wheel unit  • Wheel unit (without exchangeable battery)	<b>Ordering-no.</b> 18043616
<ul> <li>Optional accessories wheel unit</li> <li>Exchangeable battery incl. charging tray, charging device and mains cable EU</li> </ul>	<b>Ordering-no.</b> 18044044
Exchangeable battery	18044086
Charging tray, charging device and mains cable EU	18044087
Included accessories Onboard Unit	Ordering-no.
<ul> <li>CAN connecting cable (2x)</li> </ul>	55155606
Ethernet cable	55155608
• USB cable	55155609
<ul> <li>Connecting cable for OBU/DT5302</li> </ul>	
Power cable 4P DT5302	55156522
Ethernet cable 8P DT5302	55156523
Bar antenna (3x)	55158080
<ul> <li>Antenna adapter QMA to SMA (3x)</li> </ul>	55157368
USB memory stick 8 GB	22000444
Peli Storm Case iM2750 with inlay	55250671
Optional accessories Onboard Unit	Ordering-no.
Cable: Analog Output	55159949
<ul> <li>Rod antenna, 2.4 GHz, with 3 m cable</li> </ul>	55269688

### Ordering code

<ul> <li>KiRoad Wireless S6 Onboard Unit EU</li> </ul>	Typ 9813C11
<ul> <li>KiRoad Wireless S6 Onboard Unit NA</li> </ul>	Typ 9813C12
<ul> <li>KiRoad Wireless S6 wheel unit</li> </ul>	Type 9822A1
<ul> <li>KiRoad Wireless S6 rotary encoder</li> </ul>	Type 5262A

Seite 2/2