ROHDE&SCHWARZ
Make ideas real

R&S®CABLE RIDER ZPH TWO-PORT MODEL
Expect fast. Expect efficient. Expect more.

The perfect choice for

RF transmitter installation and maintenance	**Spectrum clearance / Interference hunting**
Transmission line measurements	**Antenna measurements**

Cost-saving solution – one box does it ALL

The R&S®Cable Rider ZPH two-port model performs all essential cable and antenna measurements required for installing and servicing radio transmission links in the field. Being fast and efficient, it can handle cable and antenna measurements swiftly.

With the two-port model, you can expect more functionality. It can perform spectrum analysis (R&S®ZPH-K1 option) and has an independent tracking source plus an integrated bias tee. All these adds-on make the R&S®Cable Rider ZPH the perfect field installation and maintenance tool.
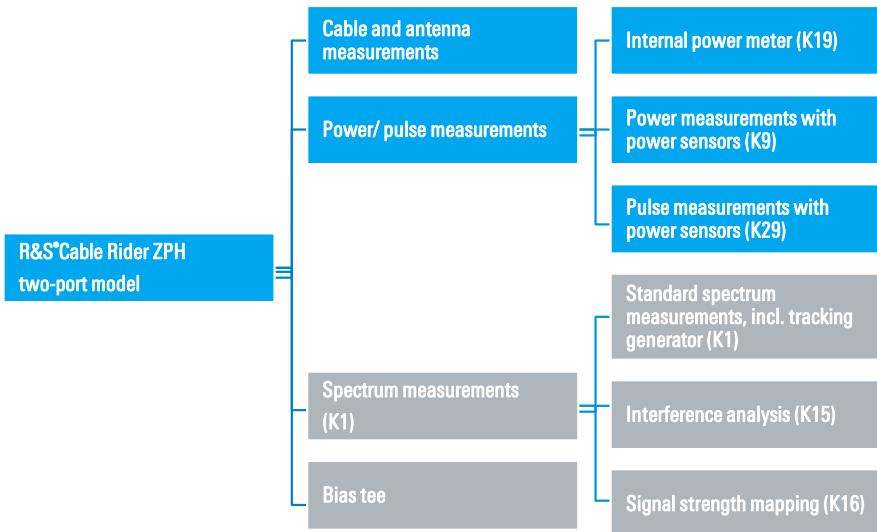
Key specifications	
Frequency range	2 MHz to 3/4 GHz (cable and antenna mode) 5 kHz to 3/4GHz (spectrum mode)
Measurement speed	0.3 ms/point
Data points	101 to 2501 points
Measurement mode (standard)	DTF, return loss, VSWR, one-port cable loss, loss, Smith chart, phase
Measurement mode (optional)	spectrum measurements, interference hunting, internal power meter, power measurements with power sensor, pulse measurements, modulation analysis
Max. permissible spurious signal	+17 dBm
Boot time	< 15 s
Battery operation time (full charge)	up to 9 hours
Weight	2.5 kg

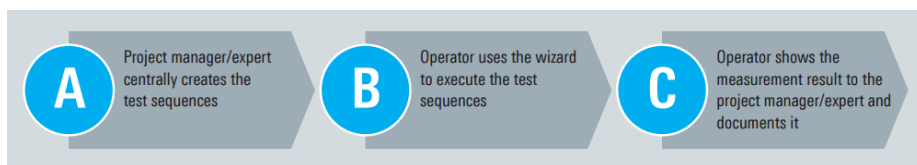| Your benefit	Features
Perform multiple tasks: all-in-ONE box	Offers cable and antenna measurement function, spectrum analysis, interference hunting, S11 and S21 measurements, etc.
Make the right measurement instantly	Wizard function, settings preconfigured in advance
One-step calibration	With R&S®ZN-Z103 automatic calibration unit, no toggling between O/S/L standards
Shortest test time	Fastest measurement speed (0.3 ms/pt.), short boot and warm-up times
Work in all environmental conditions	Non-reflective display and illuminated keypad for dark or bright environments. Water-resistant carrying holster for rainy days.
Buy what you need when you need it	Upgrade via keycode, no downtime, no upgrade calibration required
Wireless remote control	Free downloadable Android/iOS apps (third-party wireless router required)

For price and more information:
www.rohde-schwarz.com/catalog/ZPH

More functionality

R&S®Cable Rider ZPH two-port model

- **Cable and antenna measurements**
- **Power/ pulse measurements**
  - Internal power meter (K19)
  - Power measurements with power sensors (K9)
  - Pulse measurements with power sensors (K29)
- **Spectrum measurements (K1)**
  - Standard spectrum measurements, incl. tracking generator (K1)
  - Interference analysis (K15)
  - Signal strength mapping (K16)
- **Bias tee**

Functions in blue boxes are available for the R&S®Cable Rider ZPH one-port and two-port models. Functions in green boxes are available ONLY for the R&S®Cable Rider ZPH two-port model.

Remote wireless control apps

Connected to a third-party wireless router

Tablet with Android / iOS app to remote control the analyzer

Calibration

One-step calibration with automatic calibration unit (R&S®ZN-Z103)

Combined OSL calibration kit (R&S®FSH-Z29)

Wizard function

A Project manager/expert centrally creates the test sequences

B Operator uses the wizard to execute the test sequences

C Operator shows the measurement result to the project manager/expert and documents it

Fast and accurate measurements in 3 simple steps

Popular options/accessories

Description	Item
Frequency upgrade (3 GHz to 4 GHz)	R&S®ZPH-B4
Calibration unit, one-port, 2 MHz to 4 GHz	R&S®ZN-Z103
Combined open/short/50 Ω load calibration standard, for calibrating the VSWR and DTF measurements, DC to 3.6 GHz	R&S®FSH-Z29
Soft carrying bag	R&S®HA-Z220
Rainproof carrying holster	R&S®HA-Z322

Feature highlights

Fast & efficient
- ▶ No calibration required – start measuring with fastest measurement speeds right away
- ▶ Enjoy shortest boot and warm-up times
- ▶ Deploy quickly and correctly with the wizard function
- ▶ Buy what you need when you need it
- ▶ Remotely operate with Android or iOS app

More
- ▶ A cost-efficient multipurpose instrument for spectrum clearance, RF transmitter installation and maintenance as well as interference hunting
- ▶ Built-in tracking generator
- ▶ Built-in bias tee