## Specifications

Specifications apply under the following conditions: 15 minutes warm-up time at ambient temperature, specified environmental conditions met and calibration cycle adhered to. Data without tolerances: typical values. Data designated as "nominal": design parameters, i. e. not tested.



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|  |  |  |
| :---: | :---: | :---: |
| General data |  |  |
| Display | $14 \mathrm{~cm}\left(5.7^{\prime \prime}\right)$ LC color display |  |
| Resolution | $320 \times 240$ pixels |  |
| Memory <br> Settings and traces | CMOS RAM $100$ |  |
| Environmental conditions |  |  |
| Temperature |  |  |
| Operating temperature range R\&S ${ }^{\ominus}$ FSH powered from internal battery R\&S ${ }^{\ominus}$ FSH powered from AC power supply | $\begin{aligned} & 0^{\circ} \mathrm{C} \text { to } 50^{\circ} \mathrm{C} \\ & 0^{\circ} \mathrm{C} \text { to } 40^{\circ} \mathrm{C} \end{aligned}$ |  |
| Storage temperature range | $-20^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$ |  |
| Battery charging mode | $0^{\circ} \mathrm{C}$ to $40^{\circ} \mathrm{C}$ |  |
| Climatic conditions |  |  |
| Relative humidity | $95 \%$ at $40^{\circ} \mathrm{C}$ (EN 60068) |  |
| IP class of protection | 51 |  |
| Mechanical resistance |  |  |
| Vibration, sinusoidal | complies with EN 60068-2-1, EN 61010-1 <br> 5 Hz to 55 Hz : max $2 \mathrm{~g}, 55 \mathrm{~Hz}$ to $150 \mathrm{~Hz}: 0.5 \mathrm{~g}$ constant, 12 minutes per axis |  |
| Vibration, random | complies with EN 60068-2-64, 10 Hz to $500 \mathrm{~Hz}, 1.9 \mathrm{~g}$, 30 minutes per axis |  |
| Shock | complies with EN 60068-2-27, 40 g shock spectrum |  |
| RFI suppression | complies with EMC directive of EU (89/336/EEC) and German EMC legislation |  |
| Immunity to radiated interference <br> Level display at $10 \mathrm{~V} / \mathrm{m}$ (reference level $\leq-10 \mathrm{dBm}$ ) <br> Input frequency <br> IF <br> Other frequencies | $\begin{aligned} & 10 \mathrm{~V} / \mathrm{m} \\ & \\ & <-75 \mathrm{dBm} \text { (nominal) } \\ & <-85 \mathrm{dBm} \text { (nominal) } \\ & \text { < displayed noise level } \end{aligned}$ |  |
| Рошє supply |  |  |
| AC supply | plug-in AC power supply (R\&S ${ }^{\oplus}$ FSH-Z33) 100 V AC to 240 V AC, 50 Hz to $60 \mathrm{~Hz}, 400 \mathrm{~mA}$ |  |
| External DC voltage | 15 V to 20 V |  |
| Internal battery | NiMH battery, type Fluke BP190 (R\&S® FSH-Z32) |  |
| Battery voltage | 6 V to 9 V |  |
| Operating time with fully-charged battery | 4 h with tracking generator off, 3 h with tracking generator on |  |
| Lifetime | 300 to 500 charging cycles |  |
| Power consumption | $\text { typ. } 7 \text { W }$ |  |
| Safety | complies with EN 61010-1, UL 3111-1, CSA C22.2 No. 1010-1 |  |
| Test mark | VDE, GS, CSA, CSA-NRTL |  |
| Dimensions ( $\mathrm{W} \times \mathrm{H} \times \mathrm{D}$ ) | $170 \mathrm{~mm} \times 120 \mathrm{~mm} \times 270 \mathrm{~mm}$ | 18 |
| Weight | 2.5 kg | 11 |

## Accessories and ordering information



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[^0]:    1) 80 V valid as of serial number 100900 (model 1145.5850.03) or 101600 (model 1145.5850.13); models 1145.5850.23, 1145.5850.06 and 1145.5850 .26 all serial numbers.
    ${ }^{2)}$ As of serial number 101362.
[^1]:    3) Starting serial no. 100500.
