

A300-1 set

Optical Fiber Probe 1-channel, 5 MHz



Short description

The A300-1 set consists of a sensor, which allows for oscilloscopically displaying analog signals under EFT/ESD/RF interference potential free. Disturbed signals can be easily detected. In the device under test the sensor transforms the measured analog signals into optical signals. The optical signals are transmitted via a fiber optical cable to the optical receiver which transforms them into electrical signals. These can be presented with an oscilloscope or can be used for controlling other devices. The system is suitable for monitoring a device under test in an anechoic chamber or for EMC optimizing of hard- and software. For signal detecting within the device under test several sensor types AS 300 or AS 350 with different measuring ranges are available.

Scope of delivery

- 1x AE 300, Optical Receiver
- 1x AS 300, Optical Sensor, Analog ± 10 V DC
- 1x LWL $\varnothing 2.2$ mm 1.5 m, Optical Fiber Single 1.5 m
- 1x NT FRI EU, Power Supply Unit
- 1x A300-1 acc, Accessories
- 1x A300-1 case, System Case
- 1x Analog m, User Manual

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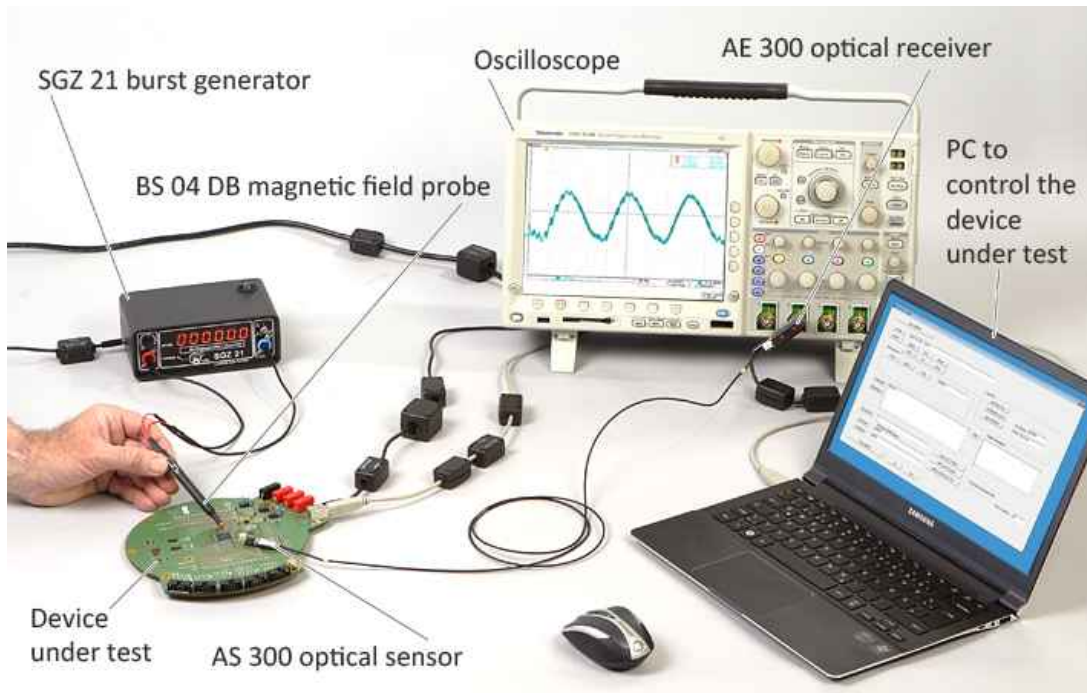
Technical parameters

| | |
|--------------------------------|-------------------------------|
| Bandwidth | DC ... 5 MHz |
| Sampling rate | 12.5 Msps |
| Resolution | 10 Bit |
| AE 300 Optical Receiver | |
| Bandwidth | DC ... 5 MHz |
| Voltage range - output | ±1 V |
| Optical input: Optical fiber | Ø 2.2 mm |
| Supply voltage | 12 V ... 16 V |
| Current input | ≈ 90 mA |
| AS 300 Optical Sensor | |
| Bandwidth | DC ... 5 MHz |
| Sampling rate | 12.5 Msps |
| Measuring range | ± 10 V |
| Input resistance | 100 kΩ |
| Radiated immunity | > 200 V/m |
| Supply voltage | 4.5 V ... 16 V |
| Current input | 70 mA (4.5 V) 30 mA (16 V) |
| Optical fibre length | 1 ... 20 m |

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Application with A300 set



Application with AS 300 optical sensor



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