A100-2 set
双通道光纤探头（25KHz）

Short description

A100-2把在EFT/ESD/高频干扰影响下的模拟信号显示到示波器上。在检测电力或电子设备对高频电磁场（IEC 61000-4-3到IEC 61000 -4-6）的抗干扰性时，该系统特别适合于检测模拟信号。
对电磁场进行给定的调制时会对模拟信号产生影响，A100，A200和A300系列模拟信号测量系统能够快速识别到这些影响。
该探头包含一个传感器，这个传感器测量受测物中的模拟信号，并把测得的模拟信号转化为光信号。光信号通过光纤传到示波器的光学输入端；光学输入端再把光信号转化为电子模拟信号。示波器可以显示这些信号，或用它们来控制其他设备。

By applying the prescribed modulation models for electromagnetic fields, signal influences can be easily detected using the A100 set, A200 set and A300 set analog measuring systems.
With the optical transmission system hard- and software can be EMC-optimized, because disturbed signals can be easily detected.

The A100-2 set consists of 2 sensors. These sensors allow for the oscillograhing of floating analog signals under EFT/ESD/RF disturbance. Disturbed signals can be easily detected. A sensor transforms measured logical signals within the device under test into light signals. Via the optical fiber cables these light signals are transmitted to an optical receiver, which transforms them into electrical signals. They can be seen with an oscilloscope or used for controlling other devices. For measurements, several sensor types with different measurement ranges are available. The system is useful for signal- and DUT monitoring in an anechoic chamber or for EMC optimization of hardware and software.

Delivery content

2x AE 100, 光学接收器
2x AS 100, 光学传感器 （50/ 10）V DC
2x LWL Ø 2.2 mm 6 m, 6m 光纤
1x NT FRI EU
1x A100-2 acc
1x A100-2 case, System case
1x Analog m, A100-1系列 操作指南

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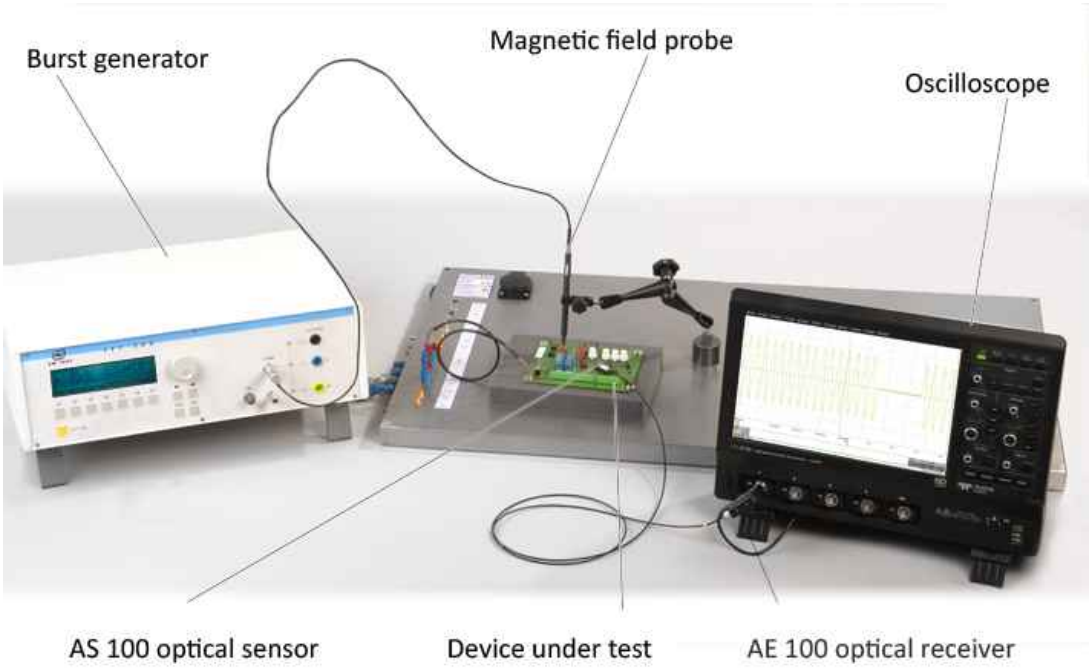
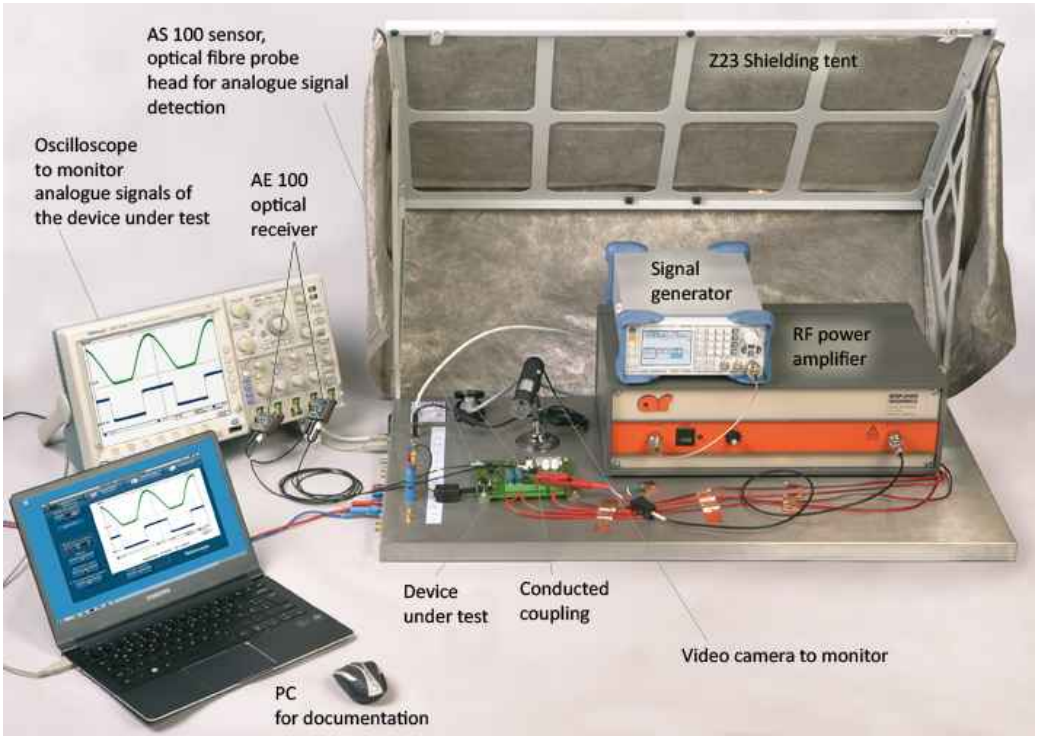
Technical parameters

带宽	DC ... 25 kHz
采样率	125 ksps
分辨率	12 Bit
AE 100 光学接收器	
带宽	DC ... 25 kHz
光学输入: 光纤	Ø 2.2 mm
输出电压范围	0 V ... 10 V
电源电压	12 V ... 16 V
电流输入	≈ 30 mA
输出接口	BNC
AS 100 光学传感器	
带宽	DC ... 25 kHz
采样率	125 ksps
测量范围	0 V ... 50 V / 0 V ... 10 V DC (switchable)
输入电阻	100 kΩ
抗辐射性	> 200 V/m
电源电压	3 V ... 16 V
电流输入	≈ 3 mA
光线长度	1 m ... 20 m

Application with Set A100 and field source



Application Set A100 and shielding tent



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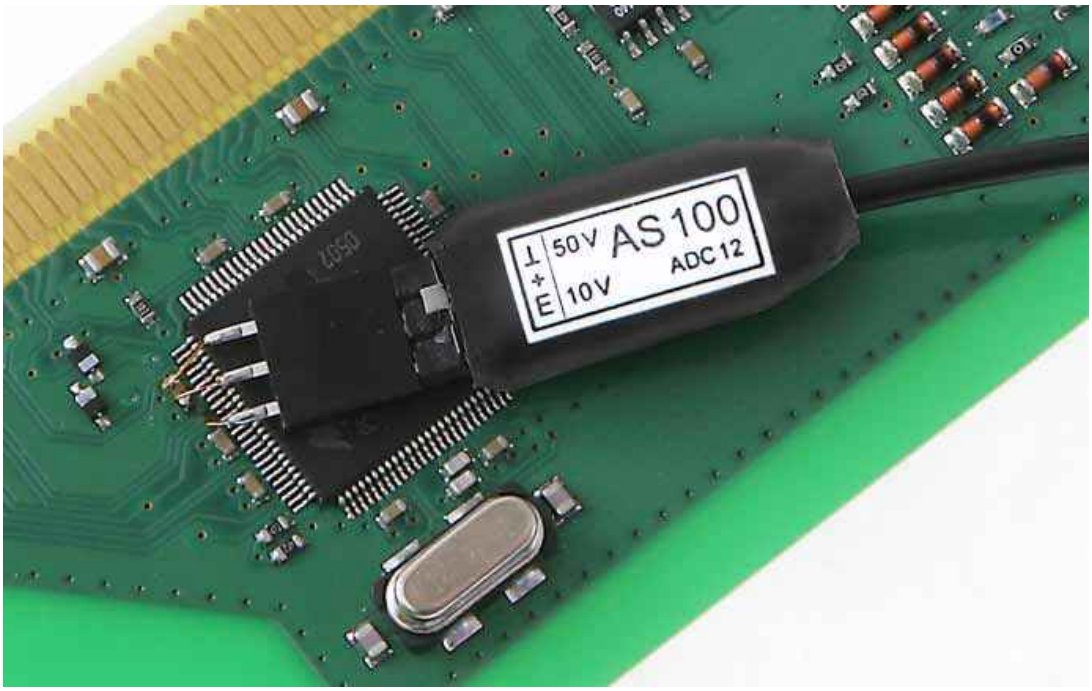
Application with optical sensor AS 100



Lieferumfang Set A100-2