

### Field of application and characteristics

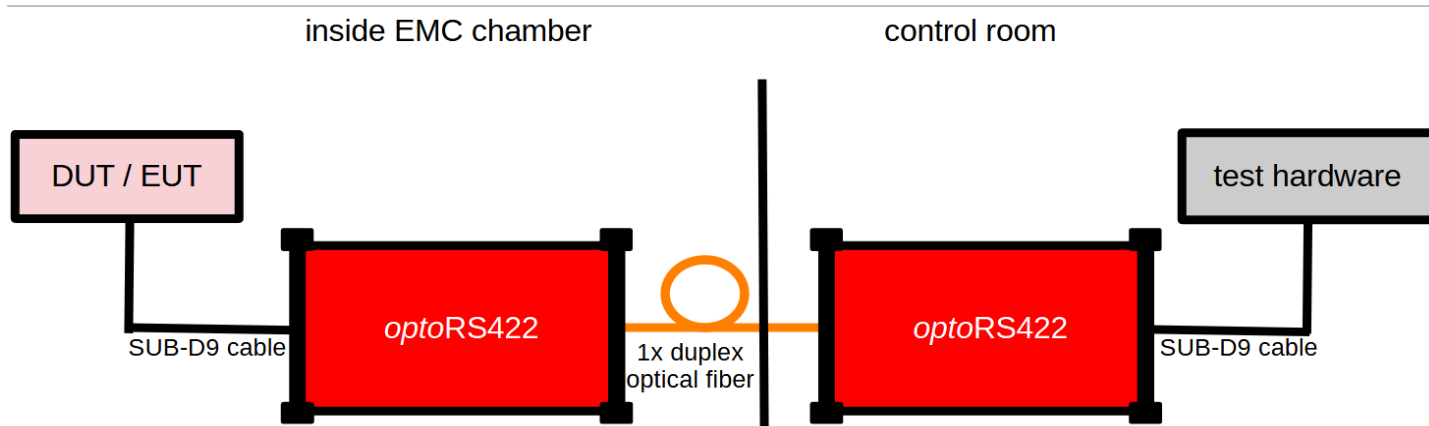
The **optoRS422** system can be used for the bidirectional optical transmission of RS422 signals up to a data rate of 1 Mbit/s (depending on signal conditions).

The system consists of two identical transceivers, one to be connected to the DUT and one to be connected to the RS422 controller. The optical transceivers are code transparent.

The system consists of two battery powered transceivers connected by a fiber-optic cable. With the optical transmission and the shielded case, the system is well equipped for EMI and EME tests.



### Application



### Technical data

<b>Channels:</b>	1 channel (full duplex)
<b>Data rate:</b>	up to 1 Mbit/s (depends on cable length and fiber-optic cable length)
<b>Data direction:</b>	bidirectional
<b>Input impedance:</b>	no internal termination
<b>Input:</b>	SUB-D 9-pin female
<b>Output:</b>	SUB-D 9-pin female
<b>Power supply:</b>	integrated batteries 4 Ah, consisting of 5x NiMH cells, 6 V operating time with fully charged batteries: approx. 20 h operating time can be extended with an external battery pack
<b>Charging connector:</b>	push-pull 12 mm PP12 or Binder 712. Push-pull 9 mm PP9 on request
<b>Housing:</b>	anodized aluminum case with rubber protectors, stackable

135 mm x 86 mm x 65 mm

**Weight:** approx. 800 g

**Optical connector:** 2x FSMA / duplex multimode fiber 62.5/125  $\mu$ m, 850 nm

### Scope of delivery

- 2x *optoRS422* transceiver
- 1x 20 m duplex multimode optical fiber (OM1) FSMA/FSMA
- 2x charger for the integrated batteries, AC plug types available: A(US), C(EU), G(UK) and I(AUS)

### Accessories and options

**Optical fiber - types:** FSMA, ST, FC, LC, E2000 (combinations possible), 62.5/125  $\mu$ m or 50  $\mu$ m

**Optical fiber - lengths:** 0.5 m  $\rightarrow$  100 m

**Optical fiber - feedthrough:** FSMA/FSMA, ST/FSMA, ST/ST, FC/FC

**Optical fiber - cleaning:** Fiber optic cleaning set

protective cap/cover for male FSMA optical fibers

**Optical fiber - protective caps:** captive cap/cover for male FSMA optical fibers (connected to the cable => does not get lost)

protective cap/cover of FSMA optical input/output of mk devices

**Optical connector - protective caps:**

captive cap/cover of FSMA optical input/output of mk devices

**External battery pack BP60:**

for run time enhancement of the device in the EMC chamber  
4 Ah or 10 Ah (additional high capacity charger needed)

PS75-5m PP12 (suitable power supply for push pull 12mm devices)

PS75-5m (suitable power supply for Binder 712 devices)

**Power supply:**

constantly powering the device in the control room (does not charge the device)  
AC plug types available: A(US), C(EU), G(UK) and I(AUS)

### SUB-D connector

