

## **IO-Link Master Test Device**



The TMG IO-Link Master Test Device is intended for the system test of IO-Link masters. Especially for borderline cases there are no, only few or sometimes expensive IO-Link devices. Therefore TMG TE has developed the IO-Link Master Test Device. This provides a selection of different IO-Link configurations, which should simplify the system test and realize a good test depth. We always recommend to perform the protocol test first with the specified test system and after passing the test to perform the system test with TMG IO-Link Master Test Devices on all ports.



### Set test configurations

Test Device realizes the different test configurations by device compatibility or by parameterization. So there is no need to load a new firmware to set a new test configuration.

#### **Test Configurations**

First of all, there are 36 test configurations to choose from. If you add the compatibility with IO-Link V1.0, then there are almost twice as many.

IO-Link V1.1 compatible with V1.0

V1.1 not compatible with V1.0

V1.0

ISDU with and without

Bitrate COM1, COM2, COM3

MinCycleTime 400 µs to 132.8 ms

Process Inputdata 0 to 32 Bytes

Process Outputdata 0 to 32 Bytes

Process data simulation cyclic or static

Pre Operate-On-Request Data 1, 2, 8, 32

Operate - On-Request Data 1, 2,8, 32

Events enable/disable Parameter

DirectParameters\_2 DirectParameterOverlay

ISDU Commands

Simple Data Types

RecordT ArrayT



## **IO-Link Device Module**

The IO-Link Device Modules from TMG TE offer the complete functionality according to IO-Link V1.1.3 and are very powerful. Cycle times of up to 400 µs can be achieved. Due to the firmware update function, the firmware can also be updated later at the end customer.



# **IO-Link Device Module Type 1**

Module with a dimension of 8 mm x 10 mm and complete IO-Link function. Suitable for simple to complex solutions.

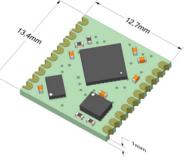


# **IO-Link Device Module Type 2**

Module with a dimension of 12.7 mm x 13.4 mm and complete IO-Link function. Function as Type 1, but for simplified assembly.

## **Technical Data:**

- IO-Link functions:
  - IO-Link Version V1.1 (V1.1.3)
  - L+, C/Q, L-
  - Parameter Manager
  - Data Storage
  - Block-Parameterization
  - Device Access Locks
  - Device Status und Detailed Device Status
  - Event Dispatcher
  - Production Settings
  - Common Profile
  - Firmware update profiles for updating the module firmware
- Communication to the host controller via UART (3.3V)
- Control of the green IO-Link device LED possible
- Configuration
  - Via IO-Link in production (End of Line)
  - Via serial interface to the host







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