





# TMGTE

IO-LINK MASTER  
TEST TOOLS



 **IO-Link**

# TMG IO-Link Device Tool V6 - MT IO-Link Master Test System



**This edition is foreseen for conformance testing of IO-Link Masters and approved from the IO-Link Community for manufacturer declaration.**

- Execution of test cases for IO-Link Masters according to the latest IO-Link Package
- Creates test report for manufacturer declaration
- Easy to use
- Includes TMG USB IO-Link Master Tester Unit

## **Supports multiple communication interfaces for test**

- STCS as test protocol from the test specification
- SMI-TCP for much more comfortable testing
- Others like PROFINET are in preparation

The Master Test System is based on the IO-Link Device Tool V6 for masters and devices, which is the most widespread.

Any of the protocols used for testing except STCS can also be used with the IO-Link Device Tool V6 as an IO-Link engineering tool. STCS is designed for testing only and does not have the necessary functions for engineering.

## TMG 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

Various test suites are available that can be loaded onto the TMG IO-Link Master Test Device via the firmware update profile:

- Test Suite according to IO-Link Package 2025
- Test Suite according to IO-Link specification V1.1.3
- Test Suite according to IO-Link specification V1.1.2
- Test Suite for EMC tests
  - is used to support the IO-Link-specific electromagnetic compatibility (EMC) tests.



IO-Link	V1.1 compatible with V1.0 V1.1 not compatible with V1.0 V1.0	Pre Operate – On-Request Data	1, 2, 8, 32
ISDU	with and without	Operate – On-Request Data	1, 2, 8, 32
Bitrate	COM1, COM2, COM3	Events	enable/disable
MinCycleTime	400 µs to 132.8 ms	Parameter	
Process Inputdata	0 to 32 Bytes	DirectParameters_2	DirectParameterOverlay
Process Outputdata	0 to 32 Bytes	ISDU	Commands Simple Data Types RecordT ArrayT
Process data simulation	cyclic or static		

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