



TMGTE

IO-LINK SAFETY
TEST DEVICE





TMG IO-Link Safety Test Device

The TMG IO-Link Safety Test Device is a powerful and flexible solution designed specifically for comprehensive system testing of IO-Link Safety Masters and engineering tools. It enables efficient validation by providing predefined IO-Link Safety configurations, helping users achieve high test coverage with minimal setup effort.

While the device is ideal for system-level testing, it is not a substitute for the dedicated IO-Link Safety Master Test System used for protocol compliance testing. For best results, it is recommended to first perform protocol validation using the specified test system, followed by comprehensive system testing with the TMG IO-Link Safety Test Device.

For thorough system validation, IO-Link Safety Masters should be tested across all ports simultaneously, each configured with varying response times, protocol modes, and process data lengths. To achieve this, multiple test devices can be deployed—matching the number of master ports. Built-in error injection capabilities allow users to simulate critical fault scenarios and verify system robustness.

With support for the IO-Link Firmware Update Profile, the device is future-ready—allowing new configurations and enhanced test functions to be added as they become available. This ensures long-term usability and adaptability to evolving testing requirements.

IO-Link	V1.1.4 V1.1.5	Pre Operate— On-Request Data	8
ISDU	Standard and FS parameters	Operate – On-Request Data	2
Bitrate	COM3	SIO Mode (OSSDe)	With and without
MinCycleTime	900, 1600 ms		
Process Inputdata	6, 10 Bytes		
Process Outputdata	6, 10 Bytes		



Important Note

The TMG IO-Link Safety Test Device is intended for evaluation and testing purposes only. It must not be used in functional safety applications.

Get in touch with us!

TMGTE

TMG TECHNOLOGIE MANAGEMENT GRUPPE
Technologie und Engineering GmbH (TMG TE)
Zur Gießerei 10
76227 Karlsruhe
Germany



+49 721-82806 0



info@tmgte.de



sales@tmgte.de



www.tmgte.com

