



aim arnold intelligente messsysteme



FORDIS
Force-Displacement Measuring System

FORDIS		
Type	Unit	Value
Power supply		
Supply voltage (via USB)	V	5
Measurement signals		
Output rate	Hz	1000
Measurement duration per test	s	8
Time delay force-displacement	-	synchronous
Force measurement		
Measuring principle	-	strain gauges
Nominal range	N	± 500
Resolution	Bit	16
Accuracy	%	typ. 0, 1
Displacement measurement		
Measuring principle	-	optical encoder
Nominal range	mm	14
Resolution	µm	1, 25
Accuracy	%	typ. 0, 1
Dimension and cabling		
Outer dimensions	mm	155x65x26 (LxW xH)
Weight	g	485g
Cable length	m	3

Force-Displacement Measuring System FORDIS

With the FORDIS measuring system, the course of force and displacement can be recorded synchronously, for example in the field of vehicle safety tests. In particular, investigations into the force required while opening the belt buckle of seat belts or on vehicle doors after crash tests are possible.

- Force measurement using strain gauges (full bridge)
- Wear-free optical displacement measurement
- Data output at 1kHz with 16 bits (signed INT) per signal
- Long duration of 8 seconds per measurement
- USB interface for communication and power supply
- Two bicolor LEDs for status indication
- Data export in ISO-MME format
- Easy test definition via intuitive user interface
- Software-guided procedure for correct test execution
- Door and seat belt buckle tests with a single measuring device
- Overload protection for force measurement
- Adapters available for different belt buckle geometries
- Robust, anodized aluminum housing



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