

CT 100.15

Pressure transducer for CT 100.23



1 pressure transducer, 2 connecting cable, 3 adapter

Description

■ pressure measurement in the combustion chamber of an engine using a micro pressure transducer

For experiments using cylinder pressure indication on the CT 100.23 test engine, the engine is fitted with a micro pressure transducer. The pressure transducer is directly exposed to the combustion chamber pressure. The core component of the pressure transducer is a heat resistant piezo-electric quartz crystal, which outputs a charge signal proportional to the pressure.

The pressure transducer is connected to the measuring amplifier in the CT 100.13 electronic indication system.

Learning objectives/experiments

- cylinder pressure measurements on internal combustion engines

Specification

- [1] quartz pressure transducer
- [2] only to be used with CT 100.13 and CT 100.23

Technical data

- Pressure transducer
- measuring range: 0...100bar
 - max. operating temperature: 200°C
 - max. allowable pressure: 250bar

Weight: approx. 2kg

Scope of delivery

- 1 pressure transducer
- 1 adapter
- 1 connecting cable
- 1 combination wrench
- 1 manual

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Required accessories

CT 110	Test stand for single-cylinder engines, 7,5kW
CT 100.13	Electronic engine indicating system for CT 110
CT 100.23	Water-cooled four-stroke diesel engine for CT 110