

CT 300.17

Pressure transducer for CT 300.04



1 spark plug with pressure transducer, 2 connecting cable

Description

- micro pressure transducer with modified spark plug as carrier
- pressure measurement in the combustion chamber of an engine

For experiments using cylinder pressure indication on the CT 300.04 test engine, the normal spark plug is exchanged for a modified spark plug. This modified spark plug is fitted with a micro pressure transducer. The pressure transducer is directly exposed to the combustion chamber pressure when the spark plug is inserted.

The spark plug itself retains its full functionality. 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 300.09 electronic indication system.

Learning objectives/experiments

- cylinder pressure measurements on internal combustion engines

Specification

- [1] modified spark plug carrying the actual pressure transducer
- [2] quartz pressure transducer
- [3] only to be used with CT 300.09 and CT 300.04

Technical data

Pressure transducer

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

LxWxH: 30x50x130mm (spark plug)

Weight: approx. 2kg

Scope of delivery

- 1 modified spark plug with pressure transducer
- 1 socket wrench
- 1 combination wrench
- 1 connecting cable
- 1 manual

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Required accessories

CT 300	Engine test stand, 11kW
CT 300.09	Electronic engine indicating system for CT 300
CT 300.04	Two-cylinder petrol engine for CT 300