



ISO 9001

Test Unit for Oil Burner Controls LOA... and LMO...

KF8885

Operating instructions



The KF8885 test unit and these operating instructions are intended for use by OEMs and their service staff!

Use

The KF8885 is used for making the following tests on LOA... or LMO... oil burner controls:

- Measurement of flame detector current (no changes to the wiring required)
- Venting the oil system
- Observation of ignition spark via the burner control, with no delay due to the preheating of oil
- Measurement of fan pressure by means of a separate manometer, with no delay due to the preheating of oil

Warning notes



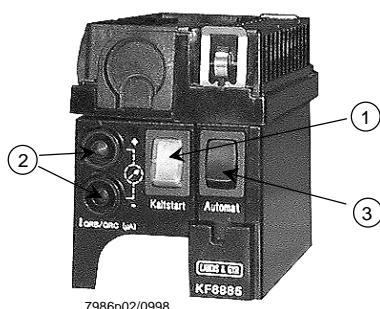
To avoid injury to persons and damage to property and the environment, the following warning notes should be observed!

- To ensure protection against electric shock:
 - Completely isolate the units from the mains supply before making any wiring changes on the burner control or the KF8885
 - Do not open, interfere with or modify the test unit
- Make certain you also observe the notes given in the data sheets of the burner controls: LOA2... / 3... (7118), LOA44... (7128) and LMO... (7130)

Service notes

- Use the KF8885 only for service and maintenance work!
- Service and maintenance work may only be carried out by qualified staff!
- Test units that are visibly damaged may not be used anymore!
- When work with the KF8885 is completed, remove the test unit from the plant again!

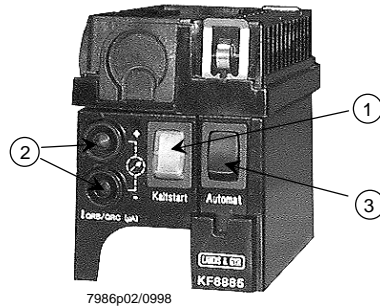
Mechanical design



- ① Switch «S1» «Kaltstart» (cold start) with integrated lamp «L1» for indication of operational readiness
- ② Jacks «Bu1» for measuring the flame detector current
- ③ Switch «S2» «Automat» (operational readiness)

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Function



- ① Switch «S1» «Kaltstart» (cold start) with integrated lamp «L1» for indication of operational readiness
- ② Jacks «Bu1» for measuring the flame detector current
- ③ Switch «S2» «Automat» (operational readiness)

Jacks for measuring the flame detector current

Measurement of flame detector current by means of a separate DC microammeter without having to interfere in the wiring.

If the DC microammeter is not used, a double-insulated cable must be connected to jack 1 (front of the unit) or jack 2 (rear).

Switch «S1» «Kaltstart» (cold start)

Position 1 «Kaltstart» active

Immediate cold start with no oil preheating time.

Position 0 «Kaltstart» inactive

Normal start, with oil preheating according to the oil preheating time.

As long as «S2» is not closed, only the fan motor will be controlled or the oil pipe vented.

The burner control starts its program only after «S2» has closed.

Lamp for operational readiness

Indicates when voltage is present at terminal 8, in which case the oil preheater is ready to operate.

Switch «S2» «Automat»

Position I «Automat» active

Burner control is released for operation.

When the oil is preheated, startup takes place with or without delay, depending on the position of switch «S1» «Kaltstart» (cold start).

Position 0 «Automat» inactive

Burner control prevents burner startup.

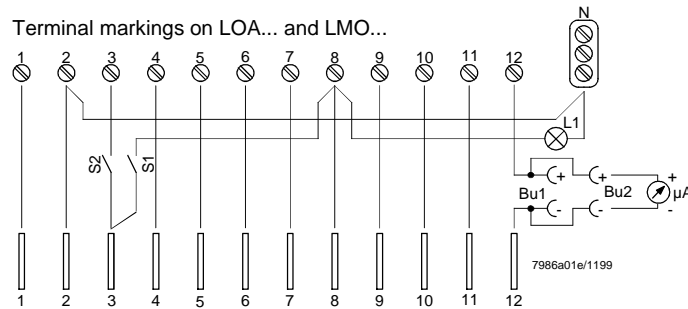
Burner motor can only be started with switch «S1» «Kaltstart» (cold start).

Accidental release of ignition and valve is prevented.

This is the correct position for venting the oil pipes.

Connection diagram

Measurement of flame detector current QRB.../QRC...



Terminal markings on burner base

Legend

- Bu1 Jack of 4 mm dia. on the front of the test unit
- Bu2 Jack of 4 mm dia. at the rear of the test unit
- S1 Switch «Kaltstart» (cold start)
- S2 Switch «Automat»
- L1 Lamp (integrated in «S1»)
- µA DDC microammeter with an internal resistance R_i of max. 5 kΩ

For required flame detector currents in connection with the LOA2... / LOA3..., refer to data sheet 7118.

For required flame detector currents in connection with the LOA44..., refer to data sheet 7128.

For required flame detector currents in connection with the LMO..., refer to data sheet 7130.