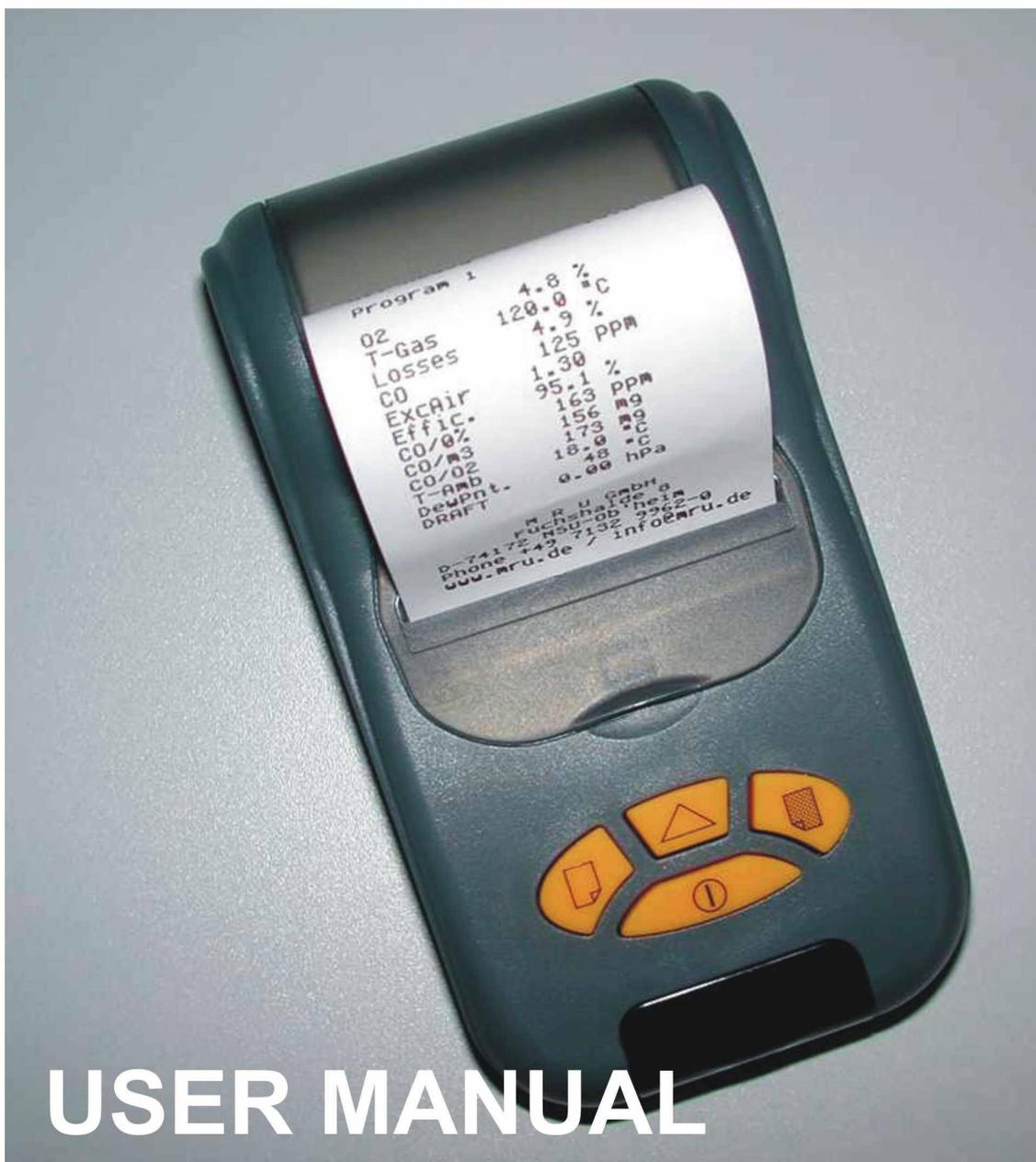


EMISSION MONITORING SYSTEMS



We *care* about the environment



USER MANUAL

INFRARED COMPACT PRINTER

Read carefully before putting into service!

MRU-No. 99999

ENGLISH



Set up:

The printer is powered by 4 AA size alkaline batteries which will provide around 6000 print lines before replacement is required. These should be fitted into the battery compartment on the rear of the printer, taking note of the individual battery orientation.



The IR-compact-printer utilized thermal paper(MRU-No. 59462- single roll or MRU- No. 59465 – 5 pack) and care should be taken when fitting new paper rolls to ensure that the „shiny“ side of the paper faces the printer head. The paper should be placed into the slot within the paper roll holder whilst holding the paper feed button until the paper feeds through to the front of the printer. Ensure that the paper has an even edge and is not folded before attempting to load into the printer.

Note: Do not try and pull the paper through manually as this could damage the print head, use the paper feed button. If the paper does jam then very carefully ease the edge of the paper back into the paper roll holder and try reloading as detailed above.

Operation:

Button layout and functions



- | |
|---------------------|
| 1 paper feed |
| 2 on / off |
| 3 lighten contrast |
| 4 darken contrast |
| 5 infrared receiver |

The printer will automatically switch off after 10 minutes of inactivity. To reactivate simply press the power on button. The printer will also switch off automatically during printing if the battery voltage drops too low, if this happens fit a new set of batteries.

Positioning the printer and the measuring instrument:

Ensure that there are no obstructions between the instrument emitter (at the top of the device) and the printer receiver (on the bottom of the printer below the keypad).

The distance of printer and measuring instrument may be up to 1 m if the horizontal transmitting angle is up to 60°.

Additional information:

If you are not certain that the printer is operating correctly, run the self-test as follows:

Turn the printer off, hold down the paper feed button whilst switching the instrument back on, the unit will now perform a self-test. If the printer fails the initial self-test, then turn the printer off and run the self-test for a second time. If the printer fails again (after checking that there is sufficient battery power) it requires service.

The battery condition reference is a number from 0 to 5 that gives an indication of how much usable battery life is remaining (5 being the highest figure). Regardless of the battery condition reference, new batteries should be installed when any of the following symptoms are present:

- The print contrast remains too low, even when the control is set to highest contrast.
- Print speed slows due to the print head moving too slowly across the paper.
- Printing Stops before all information on a line has been completed.
- The battery condition reference (shown at the end of the self-test) is 1 or 0.

Remove the batteries from the printer if you are not planning to use the unit for a long period of time

The  character is printed if information is lost because the printer cannot print fast enough to keep up with incoming data. In order to prolong battery life please note that it is suggested that you set the print contrast to the lightest readable setting and ensure that the printer is turned off once you have finished printing.

The  character will shown on the print out if the printer has detected incorrect data due to interference with, or interruption to, the stream of incoming information.

Common causes for this error include incorrect positioning of printer with reference to the instrument (this can either be due the distance or the angle of operation), obstruction of the infrared signal or even interference from another infrared emitting source.

Operating temperature: 0° ... 50°C (32°F ... 122°F)
Storage temperature: -40° ... 60°C (-40°F ... 140°F)
Humidity: 5% ... 95% relativ bei 40° (5% 95% relative at 104°F)



Measuring instruments for flue gases
and environmental protection Ltd.
Fuchshalde 8
74172 Neckarsulm - Obereisesheim
Germany

Phone: +49 (71 32) 99 62-0
Fax: +49 (71 32) 99 62-20
Internet: <http://www.mru.de>
E-mail: info@mru.de