KERN & Sohn GmbH

Operating instructions
KERN Alibi-Memory option including real time clock module

KERN YMM-03

Type TYMM-03-A
Version 1.0
2022-12
GB

i	You will find the current version of these instructions also online under: https://www.kern-sohn.com/shop/de/DOWNLOADS/ Under the column Operating instructions

Contents

1   General information on the Alibi memory option

i	- For the transmission of weighing data provided by a verified scale via an interface, KERN offers the alibi memory option YMM-03
	- This is a factory option, which is installed and preconfigured by KERN, when a product containing this optional feature is purchased.
	- The Alibi memory offers the possibility to store up to 250.000 weighing results, when the memory is exhausted, already used IDs are overwritten (starting with the first ID).
	- By pressing the Print key or by KCP remote control command "S" or "MEMPRT" the storage process can be performed.
	- The weight value (N, G, T), date and time and a unique alibi ID are stored.
	- When using a print option, the unique alibi ID is also printed for identification purposes as well.
	- The stored data can be retrieved via the KCP command "MEMQID". This can be used to query a specific single ID or a series of IDs.
	- Example:
	    o MEMQID 15 → The data record which is stored under ID 15 is returned.
	    o MEMQID 15 20 → All data sets, which are stored from ID 15 to ID 20, are returned.

2   Description of the components

The Alibi memory module YMM-03 consists of the memory YMM-01 and the real time clock YMM-02. Only by combining the memory and the real time clock all the functions of the Alibi memory can be accessed.

3   Protection of stored legally relevant data and data loss prevention measures

i	- Protection of stored legally relevant data:
	  o After a record is stored, it will be read back immediately and be verified byte by byte. If error is found that record will be marked as an invalid record. If no error, then the record can be printed if needed.
	  o There is checksum protection stored in every record.
	  o All information on a printout is read from the memory with checksum verification, instead of direct from buffer.
	
	- Data loss prevention measures:
	  o The memory is write-disabled upon power-up.
	  o A write enable procedure is performed before writing a record to the memory.
	  o After a record is stored, a write disable procedure will be performed immediately (before verification).
	  o The memory has a data retention period longer than 20 years.

4   Trouble shooting

⚠	To open a device or to access the service menu, the seal and thus the calibration must be broken. Please note that this will result in recalibration, otherwise the product may no longer be used in the legal-for-trade area. In case of doubt, please contact your service partner or your local calibration authority first.

Memory module:

- No values with unique ID are stored or printed:
  → Initialize memory in service menu (following the scales service manual).

- The unique ID does not increment, and no values are stored or printed:
  → Initialize memory in menu (following the scales service manual).

- Despite initialization no unique ID is stored:
  → Memory module is defective, contact service partner.

Real time clock module:
- The time and date are stored or printed incorrectly:
  → Check time and date in menu (following the scales service manual).

- The time and date are reset after disconnecting from the power supply:
  → Replace the button battery on of the real time clock.

- Despite new battery date and time are reset when removing the power supply:
  → Real time clock is defective, contact service partner.