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Flamcomat, Flexcon M-K Installation and operating instructions

ENG SPC Extension Modul, SD-Card





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This document is a supplement to the Installation and Operating instructions: Flamcomat, Doc.-No.: MC00018/08-2012/eng; Flexcon M-K, Doc.-No.: MC00019/11-2010/eng and must be used in conjunction with these basic documents only. The general safety instructions contained herein apply to the equipment, use and function.
In each case, the most recent version is valid (information, tel. +49 (0) 2052 887 69).

1. Appropriate use

Electronic components form a licensed addition to an SPCx-lw / hw control unit, to provide an SD / MMC card interface for the requirements of SPC data transfer. The declaration of conformity in the basic document is applicable.

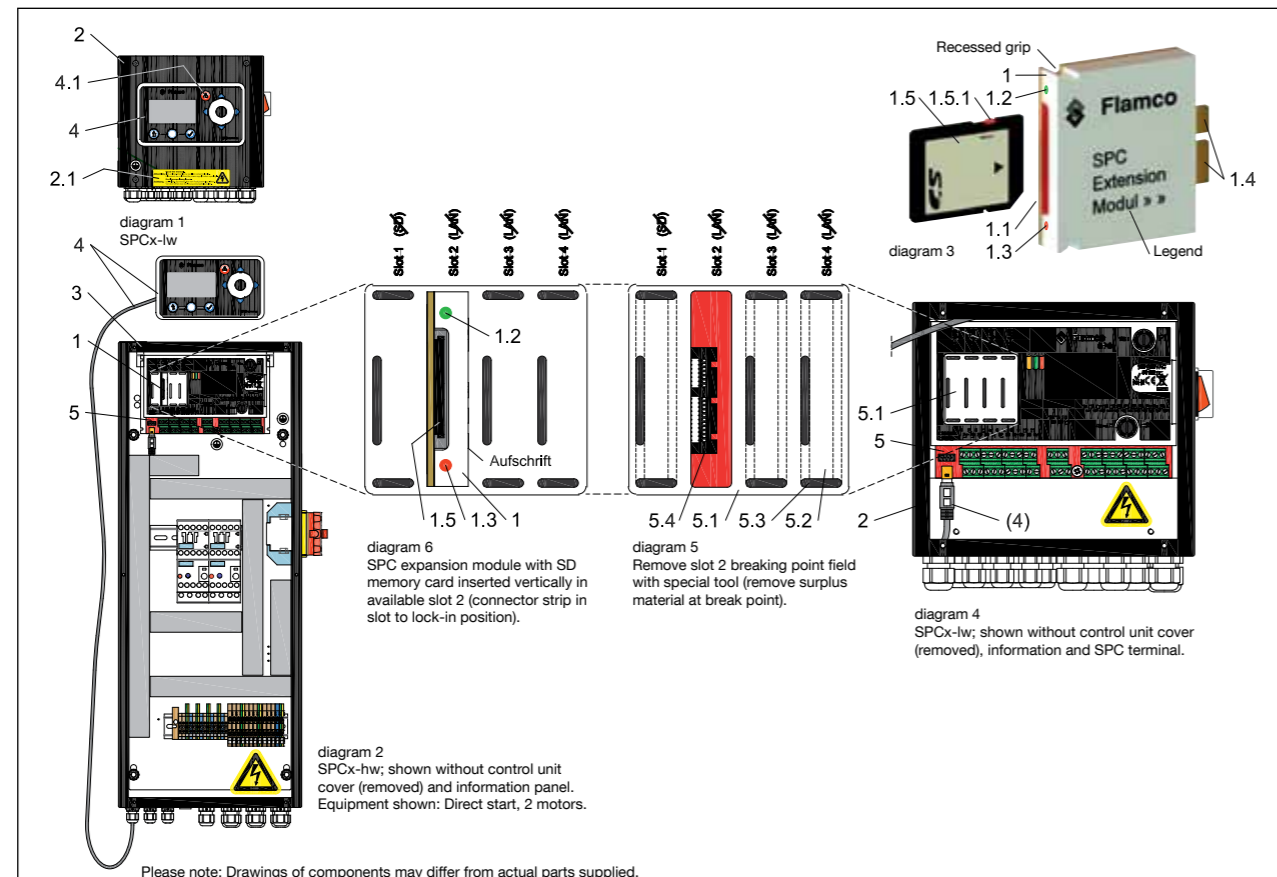
Use: to process an available SPC configuration file*, save it (to other data carriers), use it for analytical purposes (evaluation, tracing, etc.) or communications (distribution, forwarding). File use for making changes or for Support / Service to create an identically-configured control unit subject to specific instructions.

*) For correct use of available or required records in an SPC control unit.

2. Equipment, installation of module

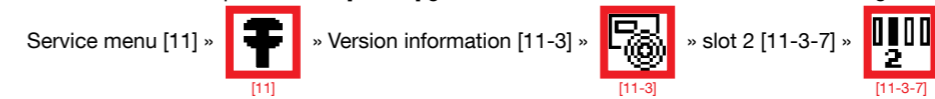
Original equipment: The module is an integral part of the control unit for external pressure (Fig. 1; 2; 6). Supplementary equipment: The packaging contains item 1 (fig. 3), the actions involved in fig. 2 and 4 - 6 can only be carried out on switching off the power supply.

- | | | | |
|-------|--|-----|---|
| 1. | SPC Extension module, SD card | 2.1 | Information, note: Dangerous voltage! To be opened by qualified personnel only. Disconnect from power supply before opening the unit. |
| 1.1 | Version type, back: "SPC_SD_V(...). (...)" | 3 | SPCx-hw control unit |
| 1.2 | LED green, illuminated (functioning). | 4 | SPC Terminal |
| 1.3 | LED red, illuminated (error). | 4.1 | Sensor key: "Error message display", active on backlighting red on. |
| 1.4 | Connector strip. | 5 | SPCx control unit |
| 1.5 | Secure Digital Memory Card (SD) 2GB memory card, alternatively Multimedia Card (MMC) up to 8GB; Secure Digital Memory Card High Capacity (SDHC) up to 32GB; File formats: FAT12; 16; 32. | 5.1 | Slots 1...4. |
| 1.5.1 | Write-protect slide (Lock). | 5.2 | Predetermined breaking point field |
| 2 | SPCx-lw control unit | 5.3 | Breaking point field opening. |
| | | 5.4 | Slot 2. |

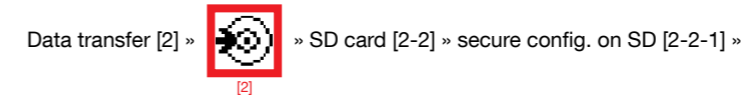


3. Commissioning, use

With the expansion module in position, the card inserted and the control-unit cover that allows the power supply and control unit to be switched "On" in place, menu [11-3-7] gives access to the version view of the following extension:

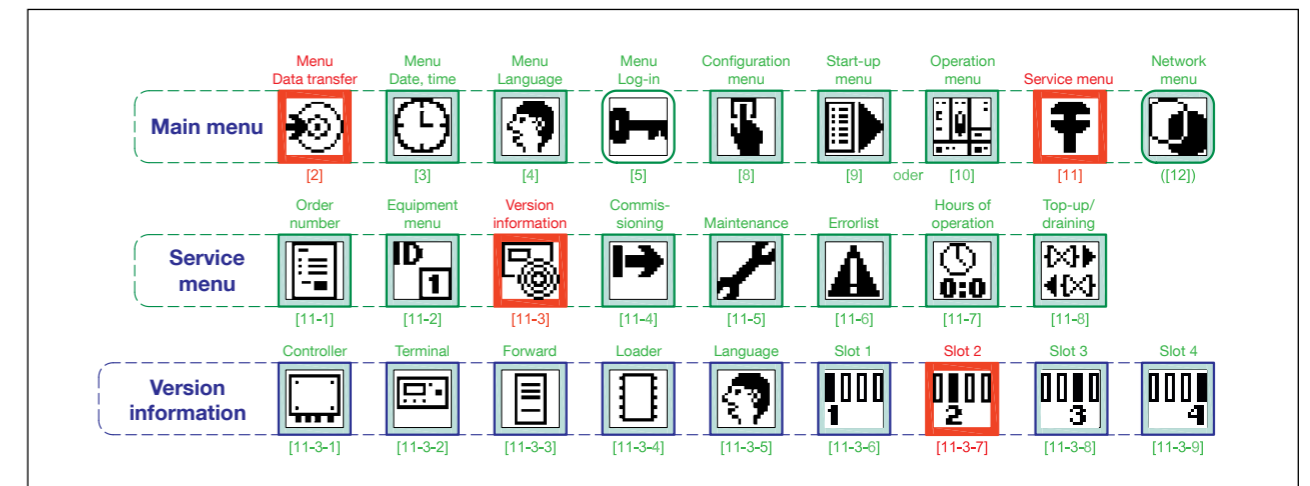


If the version number under [11-3-7] is missing, the module is not ready for operation (see pages 5 and 6 - Internal and external error messages). Once the module has been initialised (ready for operation), the save function enables the following configuration:



» Carry out action » Enter. The back-up operation does not prevent any control functions relating to pressure. Examples of saved records are shown on pages 6 and 7.

Location of data in menu:



Internal messages; LED displays on the module (no. 1.2 and 1.3);		
Status	Description	Action
Green "Off"	Module not recognised, not available, no access (version number under [11-3-7] not available).	Control unit, power supply; use indicated slot; clean contact surfaces of the connector strip.
Green "On"	Module recognised.	Access, function possible.
Green "flashing"	Data transfer	Do not remove module or SD card!
Red "Off"	No errors.	-
Red "On"	Use of module blocked (Licensing of headings).	Use module on one of three previously used control units.
Red "intermittent"	Last action resulted in error.	Repeat process under initial conditions (see also: "External error message", 60 module).

External error message; applicable error message after going to message display on terminal if error message shown:		
Display	Description	Measures
60 Module	Last external module action resulted in error (identical to LED red, flashing intermittently; no. 1.3). Important: Error not saved, not contained in menu [11-6] (Error history, analysis).	Acknowledgement deactivates the error message and the flashing red LED. (no consequences for not acknowledging) Repeat process under initial conditions.



External error messages on display of the SPC terminal; accurate, automatic error messages:				
Error No.	Display	Legend	Description	Action
1			The expansion module is not available or not completely inserted (version number not shown).	Insert expansion module correctly, push card to lock-in position.
2		Back-up failed.	The write-protect is activated (lock on).	Remove card, deactivate write protect (lock off) and insert card to the lock-in position. Repeat process under initial conditions.
3		Back-up failed.	The card has not been formatted.	Use a formatted card. Repeat process under initial conditions.
5		Back-up failed.	Card does not have enough space to write data.	Use a card with at least 200 Kb of available memory (storage record). Repeat process under initial conditions.
6		Back-up failed.	Error while reading one of the files.	Repeat process under initial conditions.
7		Back-up failed.	Error when closing one of the files.	Repeat process under initial conditions.
20		Back-up failed.	General error, e.g.: Time out as a result of lack of card or card not in lock-in position.	Repeat process under initial conditions.

4. Recommendations

Configuration files relate to both equipment and use and as such are not transferable. Do not misuse, transfer to third parties or handle carelessly. Stored files or other storage media must be archived properly so that they can be easily traced without leaving them open to misuse. If there are any requirements relating to analysis, correction, compensation etc., files containing the updated data in question must be transferred to Flamco Support or Service as an attachment to an e-mail message. Flamco Service or the qualified representative will make any changes on-site only. If a more recent version of the software is available, this change may also cover a software update (as part of a general update). Any data written on the card is permanent, i.e. it remains if the control unit is switched off or the power supply is interrupted in any way.

5. Configuration file, examples.

	<p>Readout 1 Open folder on a removable drive. Software version up to 1.1.5 (Menu [11-3-1]*): Saving will overwrite an open file. This means that there will only be a storage record of the last saving.</p>
	<p>Readout 2 Open folder on a removable drive. Software version from 1.1.6 (Menu [11-3-1]*): File will be saved in a subdirectory. The folder will be named with the serial number of the control unit.</p>
	<p>Readout 2.1 The highlighted file contains the data record of the last time the configuration file was saved (updated).</p>

	<p>Readout 2.2 It is possible to open a file with a suitable editor (XML Notepad). If data in this file is changed it will become invalid and not suitable for re-use. The data record shown is that of the file highlighted in readout 2.1. Aggregate ID: Menu [11-2-1]* Order no.: Menu [11-1-1]* Version: Menu [11-3-3]* Date and time of saving: Actual value of entry under: Menu [3]* Serial no.: Menu [11-3-1]* Error history: Menu [11-6-1]* Top-up list (topping-up/draining): Menu [11-8-3]*</p>
	<p>Readout 2.3 Highlighted subdirectory contains historical configuration files.</p>
	<p>Readout 2.4 Open subdirectory.</p>
	<p>Readout 2.5 The highlighted file contains the data record of the first time the configuration file was saved (eldest file).</p>
	<p>Readout 2.6 The highlighted file contains the data record of the penultimate time the configuration file was saved.</p>
	<p>Readout 3 The data carrier contains an inaccessible file (example highlighted). Important note: Configuration files must not include third-party files.</p>

*) Location of data; see page 2; ["..."]: Main menu, ["..." - "...": main menu, sub menu 1 - ...2.

6. De-commissioning, disposal.

Removing the module from the slot prevents the "save configuration to SD" function (error No. 1; see page 6). If this electronic component is to be disposed of, this must be performed in line with the requirements of the waste-disposal company in question.



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