New BC600 firmware version 1.16, release 2414
New PARSOFT version 1.34.2 – changes for BC600

General

The BC600 firmware comprises the operating software of the Fire Detection Control Panels Series BC600, including the function modules.

☞ The firmware of the BC600 is available as zip compressed program file "bc600v_116_2414.mot" in the "Firmware for fire detection control panels" section and the zip compressed PARSOFT installation file "parsoft_setup_v1_34_2.exe" is available in the "Parameter setup software PARSOFT" section of the protected download area of the website www.laborstrauss.com.

Legal Note

Only qualified personnel trained by a company of the Labor Strauss Group (LST) is authorised to install the firmware on a BC600. Please read and follow the corresponding instructions in the PARSOFT help for the BC600. The Labor Strauss Group assumes no liability or warranty for damages resulting from work not carried out professionally.

☞ The PARSOFT help corresponds to the User Manual Part C. In PARSOFT, the help can be called up through menu item **Help** as well as with function key **F1**.

Important tips

Parameterisation of a Fire Detection Control Panel Series BC600 with the current firmware V1.16, release 2414 is only possible since **PARSOFT version 1.34.2**. Before parameterising the control panel, make sure that the current PARSOFT version has been installed on your PC.

The improvement described applies analogously to all Series BC600 devices, i.e., also to the compact fire detection control panels BC600-1L and BC600-1D, as well as to the Remote Display And Operation Panel ABF600-1.

The license of the current PARSOFT version 1.34.2 **will end on June 1, 2025**. We will provide our partner companies with a new PARSOFT version in good time, before the current version expires.

☞ Since version 1.25, the Parameter Setup Software PARSOFT has been delivered with a **limited working life**. That is to ensure that you always use the current version of the parameter setup software for the configuration and that, as a result, the fire detection systems are kept up to date from a technological point of view.
The end of the license of a PARSOFT version is briefly shown when PARSOFT is started, and can be checked in the **About PARSOFT** window.

⚠ After a firmware update, the checks listed in DIN/VDE 0833-1, in Chapter "Inspektion", have to be carried out (if applicable)!
All firmware updates that have been carried out have to be entered in the log book of the fire detection system!

⚠ Central Processing Boards ZTB600-1 **with version V5** (PN5293B5) or higher must be provided with a **firmware version V1.03** or higher.

🚫 **In order to avoid a possible malfunction when using earlier firmware versions, it is absolutely necessary to load the current firmware V1.16, release 2414 into the BC600!**

If, during a firmware update to **V1.16 2414**, the control panel responds with an older version than V1.08 1950, first V1.08 1950 must be loaded into the control panel.

If, during a firmware update to V1.08 1950, the control panel responds with an older version than V1.05 1645, first V1.05 1645 must be loaded into the control panel. Otherwise a PARSOFT error message will occur during the firmware update.

If the firmware version of the control panel is older than V1.00 1336, the firmware V1.00 1336 must be loaded into the control panel before that. If the firmware is older than V1.00 1310, first of all the firmware V1.00 1310 must be loaded into the control panel.

1 New functions and improvements in the firmware

1.1 Division into two language versions

In order to have all existing languages of the BC600 available and to also have space for further, future languages, starting with this version, the firmware of the BC600 had to be divided into two different packages.

Therefore, from now on the following two firmware files are available to you:

Control Panels BC600-8, -16, -CE8 and -E	Compact control panels BC600-1x
bc600_p**1**_v_xxx_yyww.mot	bc600-1x_p**1**_v_xxx_yyww.mot
bc600_p**2**_v_xxx_yyww.mot	bc600-1x_p**2**_v_xxx_yyww.mot

👉 For the ABF600, there is still only one firmware with all available languages.

Language package **1**: bc600_p**1**_ or bc600-1x_p**1**_	Language package **2**: bc600_p**2**_ or bc600-1x_p**2**_
English	English
German	German
Czech	Czech
Danish	Estonian
Dutch	Russian
French	Slovak
Italian	Slovene
Lithuanian	Polish
Polish	Spanish
Portuguese	Bosnian
Spanish	Hungarian
Swedish	Romanian
Hungarian	Serbian
Romanian	Turkish
Serbian	Ukrainian
Turkish	
Ukrainian	
Russian	

👉 Make sure that in addition to the standard language of the location of the system, if possible, the languages of all employees who are to operate the fire detection control panel are also covered.

👉 You can always switch the language in the display with buttons on the operating field, through the entry of a user or through the menu.

👉 When the parameter setup is transferred to the BC600, a check is carried out as to whether the settings of the standard language and the language switching (for example through the buttons of the operating field) are possible with the BC600's current language package.

1.2   Support for the FBF300

Since this version, the Swiss Fire Brigade Control Unit FBF300-2 according to SN054002 is supported. You can configure the FBF300-2 as device on the INFO bus EP and on the Signal bus.

1.3   Input type "Silence horn CH"

If the Swiss fire brigade control unit is connected to the BC600 as parallel device (i.e., via inputs), this new input type is needed.

Through this input type, three functions are carried out together (according to the following input types):
- Transm. device - start alarm delay of all transm. devices
- MEMB silence buzzer (of all MEMB)
- Silence / reactivate alarm. dev. (all alarm. devices of the whole BCnet600)

1.4   New special detectors on the Apollo loop

Since this version, the loop module for special detectors KMX5000-AP is supported.

A module KMX5000-AP allows connection of the following special detectors:
- Special thermal detector WMX5000-FS
- Special thermal detector WMX5000-FS-850°C
- Flame Detectors Series FMX5000-xx

Furthermore, since this version, Flame Detectors Series 55000-02x [1] can be connected.

> [1]   At the moment, these detectors are not available. We will inform you in a separate Bulletin when the product is available again.

Since this version, the special thermal detector of type **55000-401** according to EN 54-5 / Class CS (maximum heat detector with a typ. alarm temperature of 90 °C) is included in the entry **WMX5000 FS, SKM-95, 55000-401** of the selection table. Up to now, **SKM-95** had to be chosen for this detector in the selection table.

1.5   Maximum number of actuation elements that can be activated

Starting with this version, the preselection allows you to determine for an actuation whether the maximum number of elements that can be activated is to be limited.

As factory setting, all new actuations are set to **no limitation**, and therefore all elements of the actuation are activated – as before.

If a limitation is set for an actuation, this is the maximum number of elements that will be activated – even if the combinations call for a higher number.

With the reset of the actuation – and therefore also of all elements – a new evaluation begins. That means that elements are activated according to the fulfilled combination requirements, up to the set number of elements.

☞ This parameter only acts on this actuation and has no further effects on other actuations.

1.6   New event "Reset blocking time running"

Since this version, an event for extinguishing control panels is available which allows a running reset blocking time to be indicated on LED displays or outputs and to be processed in combinations.

1.7 Fault evaluation of the REACT interface

Starting with this version (and also in the case of the BC216 since version PL149 x.24 2414), an interruption of the connection to the REACT server no longer results in a fault condition.

Up to now, in case of reduced transmission quality and occasional loss of single data packets, a fault condition of the interface and thus of the fire detection control panel could occur in spite of the setting **no monitoring**.

Furthermore, since this version, the LAN cable's disconnection from the ZTB60x-x is no longer evaluated as fault message if monitoring is not desired.

1.8 Alarm verification Type A with FI7x0 detectors

Thanks to an optimisation of the time behaviour, starting with this version, the alarm confirmation event is evaluated within 60 seconds even for detectors Series FI700 and FI750. This event occurs if in case of an activation of the detector the second alarm occurs after the first alarm has been reset – as described in EN 54-2.

1.9 Outputs of an MEA644

Up to this version, the outputs of an Input/Output Interface MEA644 could not be programmed if the output function of the outputs (e.g., actuation) had been disabled on the BC600. Since this version, MEA644 outputs can be programmed even if they have been disabled.

Programming outputs although they have been disabled is primarily necessary for extinguishing systems, because for safety purposes the outputs of critical applications (such as the actuation of extinguishing systems) are always disabled when the technician arrives.

Please note that when the PARSOFT PC gets connected, the outputs will only be disabled automatically if the output is disabled through the special combination **Disablement**.

1.10 Fault messages "Redundant processor failed"

In connection with the use of function modules with redundant processor it could happen that a fully functional componentry reported the fault message "Redundant processor failed". This could be attributed to a fault in the start-up of the BC600.

With this version, the start-up process has been further optimised, and in this way the incorrect behaviour mentioned has been corrected.

1.11 Interruption of the connection of the REACT interface

If the connection to the REACT server was interrupted very often (for example, when an LTE module was used for connecting REACT to the control panel via the mobile telephone network, and the reception was very poor), a permanent interruption of the connection could occur. It could only be eliminated through a hardware reset of the respective central processing board.

You can tell that the fault has occurred from the fact that in this condition it is not possible to read out the LAN details (both on the display of the BC600 and through PARSOFT-3). In the menu or screen in question, no values are indicated. This did not affect any other function of the control panel.

In the current version, this incorrect behaviour has been corrected.

2   Enhancements and improvements of PARSOFT

2.1   Output functions for FSS850

Since the use of flags allows more flexibility when functions are defined and does not occupy hardware outputs, starting with this version the factory setting has been completely converted to the use of flags.

2.2   Change of the AUTO-setup of loops with Apollo protocol

Starting with this version, loop elements with XP95 protocol which cannot be clearly categorised into one particular type, are marked with the type ----- instead of with the first type in the list.

Loop element types category	Element type (found in the course of AUTO-setup)	Type (possible types that can be manually set)	Remark
Input module	Input module	55000-833, -760, -843, -822	When AUTO-setup is carried out, modules with this identification are assigned the Type ----- and must be unambiguously set in the course of parameterisation.
		55000-841, -821	
Output module	Output module	55000-849, -804	When AUTO-setup is carried out, modules with this identification are assigned the Type ----- and must be unambiguously set in the course of parameterisation.
Input/output module	Output module	55000-847, -803	When AUTO-setup is carried out, modules with this identification are entered as **Output module** with the Type -----**.** In the course of parameterisation, they first have to be deleted and afterwards have to be inserted again with the unambiguous type.
		55000-588	

⚠ Module types for which ----- has been assigned in the course of AUTO-setup, must be unambiguously defined by the installer.

2.3   AUTO-addressing and AUTO-mapping on loops with Apollo Core protocol

Since this version, these two functions are available for loops with the Loop Interface LIF601-2 if Apollo Core elements are used.

⚠ Please note that both functions are only available on loops on which all elements support the Core protocol.
Furthermore it should be taken into account that AUTO-mapping is only available for elements with integrated isolator.

☞ However, for loops with elements which only support the XP95 or Discovery protocol, AUTO-setup, which lists all elements that exist on the loop, is still available.

2.4   Analog values can be read out in authorization level 2 or higher

Since this version, the read-out of analog values can be set on the BC600 in such a way that it is also possible for users with authorization level 2. In this case, the menu item **Analog values loop elements** in the **Status** menu is already visible in authorization level 2 or higher.

2.5 Sensitivity levels of the 22051TLE(I)

In the case of the 3-criteria detector 22051TLE(I), up to now some sensitivity levels were listed with slightly deviating information. With this version, they have been corrected both in PARSOFT and in the help file.

Furthermore, for the 4-criteria detector 22051CTLE, the sensitivity levels recommended by the manufacturer have been added to the respective set application level stated in the help file.

You can select the appropriate chapters in the help file directly from PARSOFT by means of the F1 key.

2.6 ABF600 got stuck during firmware update

With the previous PARSOFT versions it could happen that a Remote Display and Operation Panel ABF600 got stuck in an undefined state when it underwent a firmware update as stand-alone control panel (PARSOFT PC connected to the ABF600 via USB cable), and it could no longer be reset.

In this version, the fault has been corrected and the firmware of the ABF600 as stand-alone control panel can also be updated without problems.

A firmware update via the net600 was possible at any time.

2.7 Restart of the network net600

Under certain circumstances an interruption of the network restart could occur if prior to the restart a fault message existed on a member. As a result, the restart had to be repeated.

In the current version, this incorrect behaviour has been prevented.

We will gladly provide further information.