

CONTROL HPK-RA

Menu

Operation mode

Customer level

Configuration level

Installation level

The screenshot displays a multi-level control interface for the HPK-RA biomass heating system. It is organized into five horizontal sections, each with a vertical label on the left side:

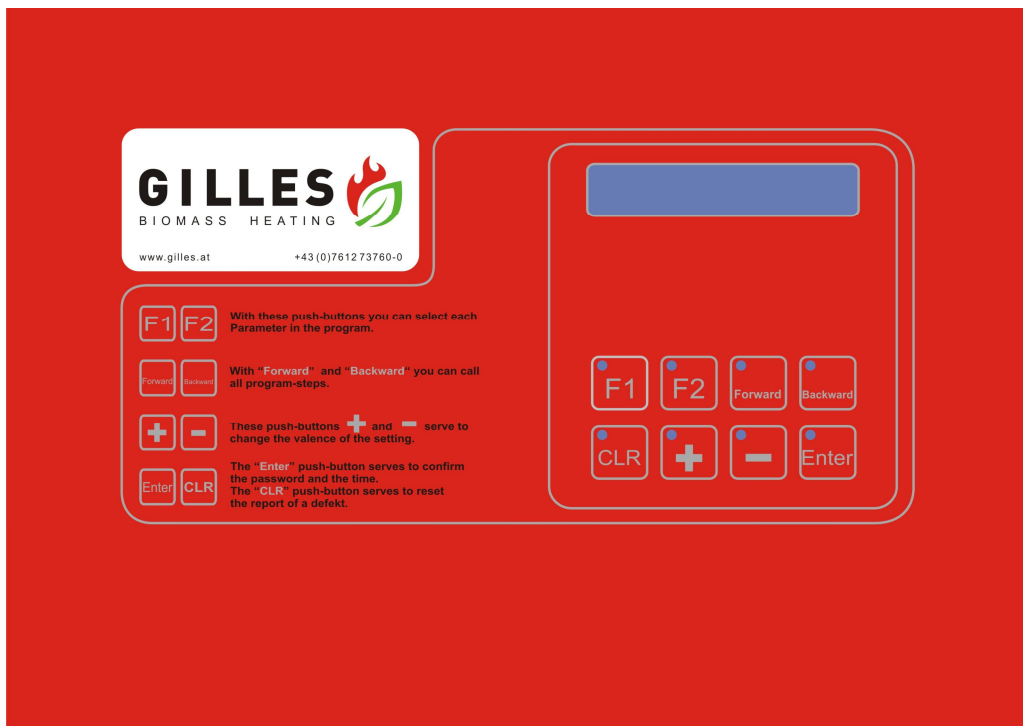
- Menu:** The top section, highlighted in red, contains two main menu items.
- Operation mode:** The second section, highlighted in orange, shows various operational settings and modes.
- Customer level:** The third section, highlighted in light blue, contains a long list of parameters and settings accessible to the customer.
- Configuration level:** The fourth section, highlighted in light green, contains a detailed grid of configuration parameters for technical users.
- Installation level:** The bottom section, highlighted in light green, contains a grid of installation-related parameters.

In the center of the interface, the **GILLES BIOMASS HEATING** logo is displayed above a 3D rendering of the HPK-RA biomass boiler unit, which is white with red accents and a red hopper.

OPERATION GUIDE

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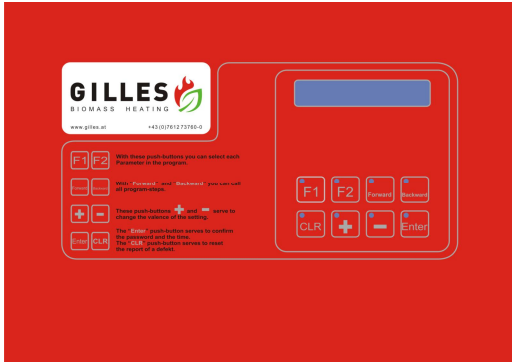
Fehler! Textmarke nicht definiert.



1. Description

1.1. Switch part

PLC incorporated on the switch part is controlling all the operations. The display serves for indication of an operational and error messages, as well as for entering the operation parameters.



The display incorporated into the table contains

- 2 lines, each one configured for 20 characters
- 8 keys with one LED (light diode)

PLC system is a product of the Sigmatek company and consists of 3 units:

- GILLES control of wood chips heating system including the incorporated operation table
- Analogous clip module (1A2)
- 230 VAC clip module (1A3)

1.2. Boiler control

Gilles. boiler control system is controlling the fully automatic operation of the facility.

- Permanent supervision of all the safety equipment (back burn sensor, boiler and flue gas temperature, return temperature).
- Automatic adjustment of the burner efficiency according to the required energy efficiency
- Indication of the boiler data, burning status and disturbances.
- Switching of the facility in case of a disturbance.

1.3. Indications on display

Within a standard operation, the display shall indicate:

in the first line: lefts - time, rights . flue gas / boiler temperature
 in the second line: actual heating status, warnings and error messages

G01	08:10:11 FLUE GAS 164 C Automatic operation	Possible main display First line: time and boiler temperature	Indication Nav ⇄⇄
	08:10:11 BOILER 74 C Tank Ë boiler operation	Second line: current operation mode	Indication Nav ⇄⇄

1.4. Operation table



F1 – Selection of program step



F2 . Selection of program step



Display forwards



Display backwards



CLR-key serves for failures confirmation



Key + change of set up values



Key - change of set up values



Key ENTER serves only for continuing the switching on, when more than one input values is seen on the display line.

1.5. Examples of operation

1.5.1. Set up of date

A17 **Set up new date**
23 / 06 / 05 0 Day (23) flashes
 New date: 16/07/05

Set up day



Press minus. key until number 17 is achieved



Confirm by Enter

Set up new date
17 / 06 / 05 0

Now month flashes (06)

Set up month



Press plus. key until number 7 is achieved



Confirm by Enter

Set up new date
17 / 07 / 05 0

Now year flashes (05)

Set up year



Right confirm by Enter

Set up new date
16 / 07 / 05 1

Number 1 flashes shortly instead of 0, as confirmation of set up data

1.5.2. Set up night drop

A06 **Night drop 1 ON**
18 H. 00 MIN H. (18) flashes
 Required starting up - 21.30 o'clock

Set up hour



Press plus. key until number 21 is achieved



Confirm by Enter

Night drop 1 ON
21 H. 00 MIN

Now flashes MIN (00)

Set up month



Press plus. key until number 30 is achieved



Confirm by Enter

Night drop 1 ON
21 H. 30 MIN

Set up ended

2. Control

2.1 Operation mode

Wood chips heating system

Nr.	Display	Explanation	Operation
G01	08:10:11 FLUE GAS 164 C Automatic operation	Possible main display First line : Time and boiler temperature	Indication Nav ⇄⇄
	08:10:11 BOILER 74 C Tank Ë boiler operation	Second line: current operation mode	Indication Nav ⇄⇄
G02	Fed amount 0050 % 02-Portion 12,9 %	Current fed amount in relation to the boiler's output	Indication Nav ⇄⇄
B01	Program selection 0 Control is OFF	Operation mode 1	Oper +/- Nav ⇄⇄
B02	Program selection 1 Manual operation	Operation mode 2	Oper +/- Nav ⇄⇄
B03	Program selection 2 Tank Ë boiler operation	Operation mode 3	Oper +/- Nav ⇄⇄
B04	Program selection 3 Time operation	Operation mode 4	Oper +/- Nav ⇄⇄
B05	Program selection 4 Automatic	Operation mode 5	Oper +/- Nav ⇄⇄
B06	Manual operation F1 forw. F2 backw.	F1-Forwards min. 5 sec. F2 Backward auger rotation is restricted for period of 2 seconds	Oper F1/F2 Nav ⇄⇄
B07	Manual oper. without disch. F1 forw.	Material supply (only feeding auger) Without discharge and delivering auger	Oper F1 Nav ⇄⇄
B08	Manual oper. ash discharge F1 ON, F2 OFF	Manual ash discharging Upon pressing F1-Key runs the ash discharging for 10 minutes and then stops automatically. F2 ash removal OFF	Oper F1/F2 Nav ⇄⇄

2.2. Customer level

Nr.	Display	Explanation	Operation
A01	Set point boiler temperature Day: 075 degrees	Selected set point boiler temperature For output control in standard operation mode	Oper +/– Nav ⇄⇄
A02	Set point boiler temperature Night: 075 degrees	Selected set point boiler temperature For output control during night drop	Oper +/– Nav ⇄⇄
A03	Temperature difference Cap bar: 005 degrees	Re-switching temperature = Set point temperature minus cap bar	Oper +/– Nav ⇄⇄
A04	Supply conveyor percent. to burner: 030 %	Percentage of the feeding conveyor to burner Example: Feeding conveyor supplies a double quantity to the burner auger ⇄ input 50 % Auger runs for t 15 sec Burner auger 30 sec	Oper +/– Nav ⇄⇄
A05	External reset ignore 0	If there is a heating circuit regulation: 0 = extern heating circuit regulation switched on 1 = extern heating circuit regulation ignored	Oper + Nav ⇄⇄
A06	Night drop 1 ON 09 H. 00 MIN	Set up hour -ENTER for changing H./MIN Start night drop 1	Oper +/– E Nav ⇄⇄
A07	Night drop 1 OFF 15 H. 00 MIN	Set up hour End of night drop 1	Oper +/– E Nav ⇄⇄
A08	Night drop 2 ON 22 H. 00 MIN	Set up hour Start night drop 2 (e.g. also the day drop is required)	Oper +/– E Nav ⇄⇄
A09	Night drop 2 OFF 06 H. 00 MIN	Set up hour End of night drop 2	Oper +/– E Nav ⇄⇄
A10	Time channel 1 ON 05 H. 30 MIN	Tank-/Boiler operation (summer operation) Set up hour Automatic ignition 1 switch on	Oper +/– E Nav ⇄⇄
A11	Time channel 1 OFF 07 H. 00 MIN	Tank-/Boiler operation (summer operation) Set up hour Automatic ignition 1 switch off	Oper +/– E Nav ⇄⇄
A12	Time channel 2 ON 18 H. 00 MIN	See A10 Deactivate : set up 00 H. 00 MIN	Oper +/– E Nav ⇄⇄
A13	Time channel 2 OFF 19 H. 00 MIN	See A11 Deactivate : set up 00 H. 00 MIN	Oper +/– E

Control

			Nav ⇄⇄
A14	Period of ign. feeding 00050 sec.	Period of ignition feeding (burner) at ignition supply (first supply before ignition)	Oper +/- Nav ⇄⇄
A15	Ash discharge Pause 00030 min.	Pause for ash discharge	Oper +/- Nav ⇄⇄
A16	Set up new time 10 : 51 : 16 0	Set up time (e.g. summer / winter)	Oper +/- E Nav ⇄⇄
A17	Set up new date 23 / 06 / 05 0	Set up date (e.g. summer / winter)	Oper +/- E Nav ⇄⇄
A18	max. Primary air 070 %	Set up blower output (number or rotations) Set up 20-100 % 50 %=25 Hz, 99 %=50 Hz	Oper +/- Nav ⇄⇄
A19	Mo Tu We Thu Fr Sa Su 01 01 01 01 01 01 01	Heat exchanger cleaning) 00=OFF / 01=ON	Oper +/- E Nav ⇄⇄
A20	Parameter change F1 : Pass-W , F2 : back	Selection Set up facility / End of customer level	Oper F1/F2 Nav ⇄⇄
A21	Password enter 0000	Installer . enter password	Oper +/- E Nav ⇄⇄
A22	Parameter change F1 : Config , F2 : Pass-W	Selection Facility configuration / installer level	Oper F1/F2 Nav ⇄⇄

2.3. Configuration level

Nr.	Display	Explanation	Operation
K01	Program version: HHS : 002.012	Notice . current program version	Nav ⇄⇄
K02	Set up. Baudrate Baudrate : 0	Set up for remote display 0=short line / 2=long line	Oper +/– Nav ⇄⇄
K03	Sum error. + TUEB present : 0	Sum error and acoustic alarm of the temperature monitoring according TRVB 0/1	Oper +/– Nav ⇄⇄
K04	Ash- / heat exchanger cl Only during day: 1	Cleaning of heat exchanger 0=also in night possible / 1=only during a day	Oper +/– Nav ⇄⇄
K05	Suction blowers present : 1	Suction blowers 0= not present / 1= present	Oper +/– Nav ⇄⇄
K06	Tank at boiler demand Filling up : 0	Tank filling in at boiler demand 0= no filling up / 1= filling up	Oper +/– Nav ⇄⇄
K07	Solar equipment present : 0	Solar equipment 0= not present / 1= present	Oper +/– Nav ⇄⇄
K09	O2-Measurement present 1	Lambda - probe 0= not present / 1= present	Oper +/– Nav ⇄⇄
K10	min. Impulse-switching rated: 002 act: 001	Impulse of the cell wheel Rated=preset IS=received impulse (if the rated value is not achieved, the cell wheel returns shortly back)	Oper +/– E Nav ⇄⇄
K11	Basic settings laden 0	0=Individual setting active 1=Factory setting active	Oper +/– Nav ⇄⇄
K12	Settings Save 0	Save settings . press + Key Confirmation of data entering - 1 flashes shortly	Oper + Nav ⇄⇄
K13	Test program Activation 0	Test program activation 0=nn / 1= test	Oper +/– Nav ⇄⇄

2.4. Password field Æ Installer level

2.4.1. Selection of operation mode

Nr.	Display	Explanation	Operation
B01	Program selection 0 Control is OFF	Operation mode 1	Oper +/- Nav ⇄⇄
B02	Program selection 1 Manual operation	Operation mode 2	Oper +/- Nav ⇄⇄
B03	Program selection 2 Tank Æ boiler operation	Operation mode 3	Oper +/- Nav ⇄⇄
B04	Program selection 3 Time operation	Operation mode 4	Oper +/- Nav ⇄⇄
B05	Program selection 4 Automatic	Operation mode 5	Oper +/- Nav ⇄⇄
B06	Manual operation F1 forw. F2 backw.	F1-Forwards min. 5 sec. F2 Reverses rotation of the auger is limited for 2 sec.	Oper F1/F2 Nav ⇄⇄
B07	Manual oper.without disch. F1 forw.	Material feeding (only feeding augers for 2 sec. Without discharge and supply augers	Oper F1 Nav ⇄⇄
B08	Manual oper. discharge F1 ON, F2 OFF	Manual operation of ash removal Upon pressing F1-Key the ash discharge continues for 10 min. and the is stopped automatically F2 Ash discharge OFF	Oper F1/F2 Nav ⇄⇄

2.4.2. Installer level

Nr.	Display	Explanation	Operation
M01	Parameter change F1 : Customer F2 : Installer	Selection Customer parameter / installer level /	Oper F1/F2 Nav ⇄⇄
M02	Rated heat boiler temp. Day: 075 degr.	Set up required heat boiler temperature For output regulation . normal operation	Oper +/– Nav ⇄⇄
M03	Rated heat boiler temp. Night 075 degr.	Set up required heat boiler temperature For output regulation . night drop operation	Oper +/– Nav ⇄⇄
M04	Temperature difference Cap bar : 005 Degrees	Re-switch on temperature = rated temperature minus cap bar	Oper +/– Nav ⇄⇄
M05	Perc. feeding auger to burner : 030 %	Percentage of feeding to burner Example: Auger supplies a double quantity of fuel ⇄ 50 % Auger runs for 15 sec Burner auger 30 sec	Oper +/– Nav ⇄⇄
M06	External resetting Ignore 0	When heating circuit regulation is present: 0 = external heating circuit regulation switched on 1 = external heating circuit regulation ignored	Oper + Nav ⇄⇄
M07	Night drop 1 ON 22 H. 00 MIN	Set up hour by ENTER for changing H/MIN Start night drop 1	Oper +/– E Nav ⇄⇄
M08	Night drop 1 OFF 22 H. 00 MIN	Set up hour End night drop 1	Oper +/– E Nav ⇄⇄
M09	Night drop 2 ON 22 H. 00 MIN	Set up hour Start of night drop 2 (e.g. for case of even day drop required)	Oper +/– E Nav ⇄⇄
M10	Night drop 2 OFF 06 H. 00 MIN	Set up hour End night drop 2	Oper +/– E Nav ⇄⇄
M11	Time channel 1 ON 05 H. 30 MIN	Tank / boiler operation (time operation) Set up hour Automatic ignition 1 switch on	Oper +/– E Nav ⇄⇄
M12	Time channel 1 OFF 07 H. 00 MIN	Tank / boiler operation (time operation) Set up hour Automatic ignition 1 switch off	Oper +/– E Nav ⇄⇄
M13	Time channel 2 ON 18 H. 00 MIN	See A10 Deactivate : set up 00 H. 00 MIN	Oper +/– E Nav ⇄⇄
M14	Time channel 2 OFF	See A11	Oper +/–

Control

	19 H. 00 MIN	Deactivate : set up 00 H. 00 MIN	E Nav ⇔⇔
M15	Boiler-set point 065 C Ac. 000 Ac._U : 000	Seen only when 1 sensor is connected Is_O= upper sensor (always warmer sensor)	Oper +/– E Nav ⇔⇔
M16	Hysteresis Boilertemp 003 Degrees	Seen only when 1 sensor is connected Switch on temp.=rated temperature - hysteresis	Oper +/– Nav ⇔⇔
M17	Tank -rated: 065 C Is-0 : 000 Is_U : 000	Seen only when 2 sensor is connected Is_O= upper sensor (always warmer sensor)	Oper +/– E Nav ⇔⇔
M18	Hysteresis tank temp. 003 Degrees	Seen only when 2 sensor is connected Switch on temp.=rated temperature - hysteresis	Oper +/– Nav ⇔⇔
M19	Ignition feeding period 00050 sec.	Feeding period (burner) in case of ignition feeding (first feeding before ignition)	Oper +/– Nav ⇔⇔
M20	Ash discharging Pause 00030 min.	Pause period for ash removal	Oper +/– Nav ⇔⇔
M21	Set up new time 10 : 51 : 16 0	Set up time (e.g. summer / winter)	Oper +/– E Nav ⇔⇔
M22	Set up new date 23 / 06 / 05 0	Set up date (e.g. summer / winter)	Oper +/– E Nav ⇔⇔
M23	max. primary air 070 %	Set up blower output (number or rotations) Set up 20-100 % 50 %=25 Hz, 99 %=50 Hz	Oper +/– Nav ⇔⇔
M24	Mo Tu We Th Fr Sa Su 01 01 01 01 01 01 01	Heat exchanger cleaning 00=OFF / 01=ON	Oper +/– E Nav ⇔⇔
M25	Parameter change F1 : times F2 : next	Selection	Oper F1/F2 Nav ⇔⇔
M26	max. feeding period (bur.) Full load : 00020 sec.	Maximum feeding period (burner) at full loading	Oper +/– Nav ⇔⇔
M27	Ignition feeding period 00050 sec.	Feeding period (burner) in case of ignition feeding (first feeding before ignition)	Oper +/– Nav ⇔⇔
M28	Feeding period during ignition : 00005 sec.	Feeding period during ignition	Oper +/– Nav ⇔⇔
M29	Feeding pause during ignition : 00030 sec.	Feeding pause of auger during ignition	Oper +/– Nav ⇔⇔

Control

M30	Feeding pause if necessary : 00600 sec.	Feeding pause of auger in case of fire maintaining(if necessary)	Oper +/– Nav ⇔⇔
M31	Set up time 10 : 51 : 16 0	Set up time (e.g. summer/ winter)	Oper +/– E Nav ⇔⇔
M32	Set up new date 23 / 06 / 05 0	Set up time (e.g. summer/ winter)	Oper +/– E Nav ⇔⇔
M33	Ignition Period 00400 sec.	Ignition period	Oper +/– Nav ⇔⇔
M34	Ignition + full loading Period 00180 sec.	Ignition period at full loading	Oper +/– Nav ⇔⇔
M35	Second ignition Period 00600 sec.	Second ignition period (the first ignition failed, the flue gas temperature was not achieved)	Oper +/– Nav ⇔⇔
M36	Switch off delay . Feeding 002 sec.	Switch off delay of feeding auger (load less run of feeding auger)	Oper +/– Nav ⇔⇔
M37	Switch on delay Silo discharge 003 sec.	Switch on delay of discharge (safety period in order to prevent clogging)	Oper +/– Nav ⇔⇔
M38	Rising worm sc. delay Delay: 003 sec.	Delay of rising auger (to disposal) (safety period in order to prevent clogging)	Oper +/– Nav ⇔⇔
M39	Ash discharge Pause 00030 min.	Pause for ash discharge	Oper +/– Nav ⇔⇔
M40	Ash discharge Period 00005 sec.	Switch on period for ash discharge	Oper +/– Nav ⇔⇔
M41	Pause fact. ash. discharge At partial operation 03	Pause factor for ash discharge at partial operation	Oper +/– Nav ⇔⇔
M42	Heat exchanger cleaning Start at : 12 o'clock	Start of heat exchanger cleaning	Oper +/– Nav ⇔⇔
M43	Operation hours 456	Indication of operation hours	Nav ⇔⇔
M45	Parameter change F1 : Lambda-R F2 : next	Selection	Oper F1/F2 Nav ⇔⇔
M46	Current blowers efficiency prim : 060 % sec : 020 %	Indication of current blowers efficiency	Nav ⇔⇔
M47	O2-Air excess at max. output 105 x 0,1 %	Air excess at maximum output	Oper +/– Nav ⇔⇔

Control

M48	O2-Air excess at Partial load 125 x 0,1 %	Air excess at partial loading	Oper +/- Nav ⇔⇔
M49	Min. quantity fed 30%	Minimum quantity fed	Oper +/- Nav ⇔⇔
M50	Max . primary air 070 %	Set up blowers efficiency Primary air ventilator at full load - and secondary ventilator	Oper +/- Nav ⇔⇔
M51	Min. primary air 020 %	Set up blowers efficiency Primary air ventilator at partial load	Oper +/- Nav ⇔⇔
M52	Max . secondary air 090 %	Set up blowers efficiency Secondary air ventilator at full load	Oper +/- Nav ⇔⇔
M53	Min. secondary air 020 %	Set up blowers efficiency Secondary air ventilator at partial load	Oper +/- Nav ⇔⇔
M54	Suction min.10 - max100 % 100 % = 1 1	Suction ventilator efficiency 10-100%	Oper +/- Nav ⇔⇔
M55	Pump pre-selection: Automatic operation	Pump pre-selection	Oper +/- Nav ⇔⇔
M56	Prim . air at ignition 060 %	Primary air amount during ignition	Oper +/- E Nav ⇔⇔
M61	Parameter selection F1 : Temp F2 : next	Selection	Oper F1/F2 Nav ⇔⇔
M62	Rated boiler temperature Day: 075 Degrees	Set up of the required boiler temperature For output control . normal operation	Oper +/- Nav ⇔⇔
M63	Rated boiler temperature Night: 065 Degrees	Set up of the required boiler temperature For output control . night drop	Oper +/- Nav ⇔⇔
M64	Indication sensor RLF: 000 TUEB : 053	Indication sensor RLF= return temperature sensor TUEB= temperature monitoring acc.TRVB	Nav ⇔⇔
M65	Temperature difference f. partial load : 004 d.	Temperature difference for partial loading	Oper +/- Nav ⇔⇔
M66	Temperature difference f. H-Start : 004 Degrees	Temperature difference for H-Start	Oper +/- Nav ⇔⇔
M67	Temperature difference f. rated temp.: 003 degrees	Temperature difference for rated temperature	Oper +/- Nav ⇔⇔

Control

M68	Rated flue gas temperature At ignition : 080 degr.	Rated flue gas temperature at ignition	Oper +/- Nav ⇔⇔
M69	Rated flue gas temperature max loading : 220 degr.	Rated flue gas temperature at full loading	Oper +/- Nav ⇔⇔
M70	Rated flue gas temperature min loading : 140 degr.	Rated flue gas temperature at partial loading	Oper +/- Nav ⇔⇔
M71	max . flue gas temperature 250 degrees Is : 015	Maximum flue gas temperature When achieving the temperature, the heat exchanger cleaning is active switched on. At next cleaning interval M42 is cleaned	Oper +/- Nav ⇔⇔
M72	Temperature correction 00 Degrees	Temperature correction	Oper +/- Nav ⇔⇔
M75	Tank error see F1 : error F2 : next	Selection	Oper F1/F2 Nav ⇔⇔
M76	00 : 00 : 00 00 : 00 : 00 No error	List of error indications	Nav ⇔⇔

2.5. List of error messages

F01	08:10:11 Boiler 74 C No external resetting	No external resetting.	Indication Nav CLR
F02	08:10:11 Boiler 74 C Flue gas temp. cold	Flue gas temperature is low.	Indication Nav CLR
F03	08:10:11 Boiler 74 C Safety thermostat active	Activated safety thermostat.	Indication Nav CLR
F04	08:10:11 Boiler 74 C Ignition is out of order	Ignition is out of order.	Indication Nav CLR
F05	08:10:11 Boiler 74 C Flue gas tem.sensor def.	Flue gas temperature sensor is defective.	Indication Nav CLR
F06	08:10:11 Boiler 74 C Boiler temp. sensor def.	Boiler temperature sensor is defective.	Indication Nav CLR
F07	08:10:11 Boiler 74 C Cover switch - discharge	Cover on the discharge auger is opened.	Indication Nav CLR
F08	08:10:11 Boiler 74 C Combustion chamber open	Combustion chamber door is opened.	Indication Nav CLR
F09	08:10:11 Boiler 74 C Auger motor defect	Auger motor defect 1K7	Indication Nav CLR
F10	08:10:11 Boiler 74 C Motor failure, silo discharge	Motor failure, silo discharge 1 F2 and 1F5.	Indication Nav CLR
F11	08:10:11 Boiler 74 C Motor failure Ë ash removal	Motor failure . ash removal 1K3	Indication Nav CLR
F12	08:10:11 Boiler 74 C Motor failure, heat ex. clean	Motor failure . heat exchanger cleaning 1K30	Indication Nav CLR
F13	08:10:11 Boiler 74 C Star wheel feeder blocked	Cell wheel is blocked.	Indication Nav CLR
F14	08:10:11 Boiler 74 C Bunker temp. sensor def.	Fuel store temperature sensor defective. (Monitoring of the temperature in store room.)	Indication Nav CLR
F15	08:10:11 Boiler 74 C Bunker temp. too high	The fuel store inner sensor indicates the temperature over 70 °C . TRVB TÜB.	Indication Nav CLR
F16	08:10:11 Boiler 74 C Auger motor defect	Auger motor defect 1K7	Indication Nav CLR

3. Entering of parameters

3.1. Change of general parameters

A GILLES works representative or a GILLES authorised representative shall adjust the program data according to the current type of heating system and individual requirements.

These data are saved by EEPROM without danger to be deleted. Nevertheless, in case of necessity, the user may them change at any time.

INFO

The changed values may be taken over into the control system only if the program is switched to the main menu.

INFO

**Parameter that are not flashing cannot be changed.
These parameters may be changed only upon entering the password.**

4. Fireview

4.1. Visualisation software for Fireview PHS

Fireview PHS is intended for wood chips and pellets heating system. Using this program, you need not be in a direct contact with the heating facility, but it is enough to seat in your living room and easily and without any danger of error making control the heating facility. This program enables a comfortable changing of parameters, as well as a current overview of the heating conditions and status and possible error message.

The customer has two versions to his disposal when working with Fire-View program:

- Fire-View-CAN works via an intern connection named CAB-Bus. This special cable may be up to 300 m long.
- Thanks to Fire-View-Modem all the information may be transferred via the telephone line that means, its radius is practically illimitable.

4.1.1. CAN-BUS Interface

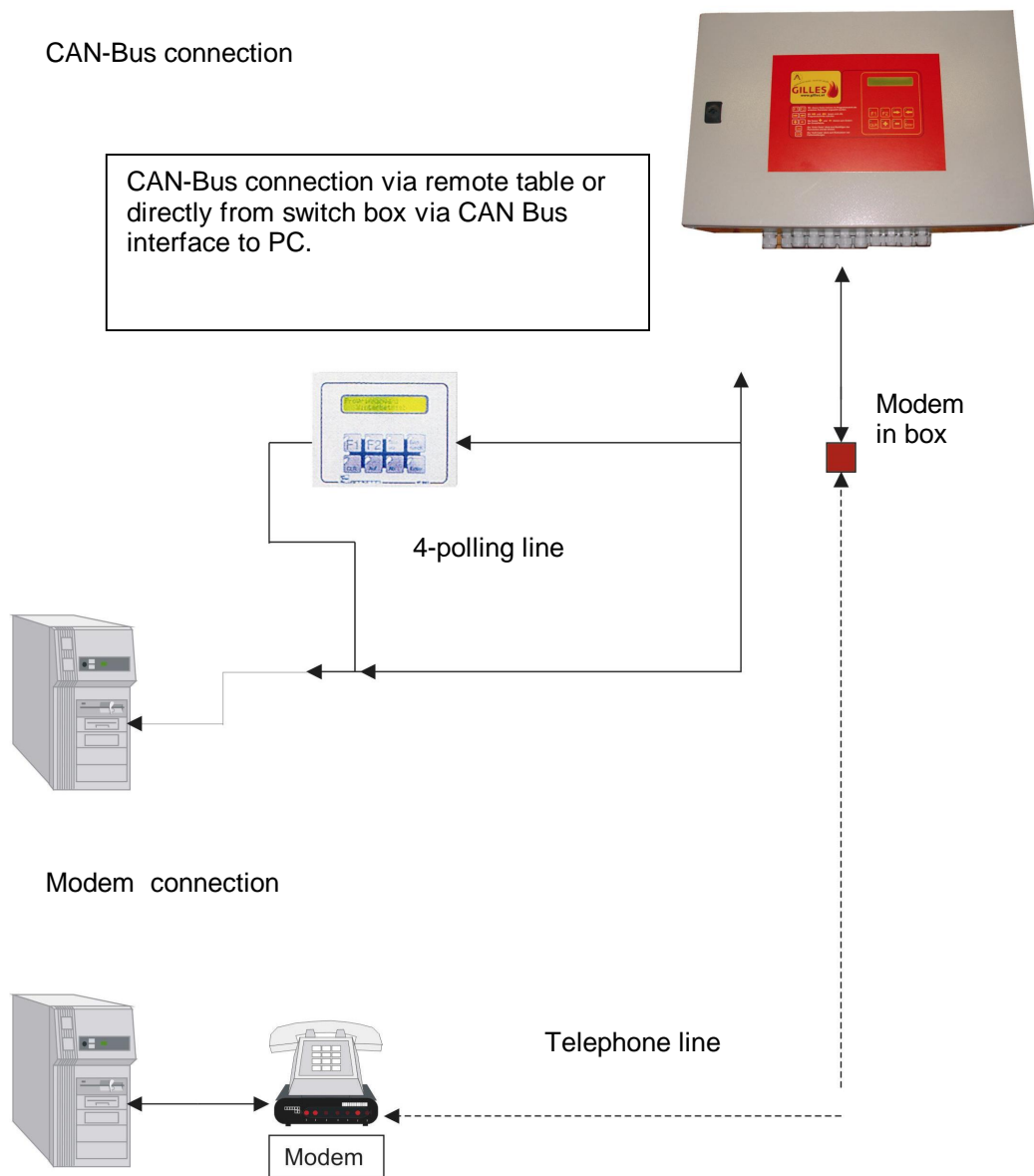
Instead of the modem a CAN-Bus interface that can be plugged into the computer printer interface LPT1 or LPT2 by means of a 4-polar data cable (max. 300 m) is required.

Control

Zeit	Kessel C°	Abgas C°	Einsch. %	O2 %	Pr.Gabl.%	Se.Gabl.%	Meldungen
19:43:10	024	021	050	15,3	080	010	ABGAS IST KALT
19:44:12	024	021	050	15,0	080	010	ABGAS IST KALT
19:45:13	024	021	050	15,4	080	010	ABGAS IST KALT
19:46:15	024	021	050	15,3	080	010	ABGAS IST KALT
19:47:17	024	021	050	15,3	080	010	ABGAS IST KALT
19:48:18	024	021	050	15,3	080	010	ABGAS IST KALT
19:49:20	024	021	050	15,3	080	010	ABGAS IST KALT
19:50:22	024	021	050	15,1	080	010	ABGAS IST KALT
19:51:23	024	021	050	15,4	080	010	ABGAS IST KALT
19:52:25	024	021	050	15,1	080	010	ABGAS IST KALT
19:53:26	024	021	050	15,1	080	010	ABGAS IST KALT
19:54:28	024	021	050	15,1	080	010	ABGAS IST KALT

Displayed data: time, boiler temperature, flue gas temperature, O₂ content, primary and secondary blowers output, error messages.

Connection possibilities for data transfer



Connection with the modem in the switch box is possible either via main connection, by-line place or via fax.

4.1.2. Remote maintenance via modem

The analogous modem integrated in the Control system enables a remote maintenance through any PC. For this purpose there is necessary to have **FireView** program installed in PC.

The delivered telephone cable shall be plugged into the analogous telephone connector and on the RJ11 connection on the control system (see figure).

