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Introduction

UES glue application units fulfil your utmost requirements with respect to quality, working- and production safety as well as to being maintenance- and user friendly.

Through the combination of the most modern drive- and control technology with comfortable and complete instrumentation you will be guaranteed the highest possible usage. The extreme compact construction and the possibility of a modular extension enable a variety of services when working with versatile applications. The UES glue application unit "PressMelt" is equipped with carefully chosen components of the highest quality. Taking the manual into account a long and non-restrictive use of the unit is possible.

Besides a complete program for standard applications of gluing technology with tank units, hose- and gun systems we offer individual problem solutions and system components for special use in various parts of industry.

When operating hot melt glue application units the adhesive is processed at high temperatures and high material pressure. There for safety precautions are to be taken during/before installation, use and maintenance.

The above-mentioned safety precautions (safety symbols) are shown in the description of the system handling (manual) and there also described more accurately. They solely refer to the handling of the glue application system.

Before installing the appliance, the operator's manual is to be read and fully understood, so insuring safe installation and guaranteeing problem-free operation.

The system owner and respectively the system user are responsible for the abidance to the safety precautions.

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Whereby the manufacturer does not guarantee the accuracy of the contents of this manual. The manufacturer also reserves the right to make changes to this manual/handbook at any time.

UES AG Krefeld, August 2012



Safety instructions

The following safety instructions must be adhered to!



Attention: Before installation- and adjustment work is carried out, the appliance must be disconnected from the mains!

Qualified personnel can only carry out installation and maintenance work,

meaning only the personnel that has been trained on such appliances and who has the required experience and qualification with these or similar appliances and who is experienced in the safety and accident prevention procedures and thus can recognise these immediately.

Any work, repairs or maintenance made on the gluing pattern system is only to be carried out when the appliance has been disconnected from the main power supply and the compressed air has been cut off (depressurise the system).

The appliance may not be operated without the relevant casing and safety protection. Beware of exposed moving and rotating appliance parts such as motor and pump movement and also rising/sinking parts.

Attention! Do not use this appliance for anything other than that, for which it was manufactured!

Many exposed parts of this unit, such as the hot glue hose and order valve operate at a very high temperature, which can result, when coming into contact with hot and pressurised glue, in severe burns to the skin. Therefore when operating this unit, filling the melting tanks, installation and construction of a hose and order valves, protective clothing (safety gloves and glasses as well as clothing and shoes) are to be worn at all time. Several glues produce poisonous gases, which have to be filtered.

Under no circumstances is the glue application unit to be operated under the following conditions:

- Near escaping substance or exploding gases or materials
- Without the appropriate safety appliances
- Temperatures lower than 5° C and more than 45°

Safety precautions regarding the glue

The utmost care is required when working with hotmelt glues! Material of this kind has a high and quick bonding quality, so that it can even still be very hot when it is hardened and can lead to burns when coming into to contact with exposed skin.

The safety procedures of the glue manufactures are to be followed. They can be found in the relevant information sheet of the respective glue.

Always abide to the operational gluing temperatures suggested by the manufactures!



During work with hotmelt glues wear protective gloves, glasses and long sleeved clothes to reduce the risk of burns. In the event of an accident happening with hot glue, do not try and remove the glue from the skin but run the burnt area under cold water until the glue has cooled off and then contact a doctor immediately.

Safety precautions relating to the production machine

The recommended safety procedures when dealing with production- and or packing machines are to be taken from the manual delivered with these machines.

When installing, operating and maintaining the unit the safety measures referring to the main machine which the unit is built into must be taken into consideration.



Safety symbols

The safety symbols shown below indicate operations where increased is called for. The safety procedures should be followed to at all times:



Attention, general safety instructions: Regards to safety instructions when working with glues and other machines. Additional (special) safety instructions can follow



Caution hot surface: Danger of burning. Appliance parts have a high operating temperature.



Caution high voltage: This type of work is only to be carried out by qualified personal.



Caution hand injury: Risk of entrapment if incautiously operated.



Caution, possible danger of uncontrolled release/leakage of hot liquids!



Disconnect power plug before opening!



Disconnect power supplier!



Wear safety gloves!







Schematic drawing



Control
 Main Switch
 Manual switch gear pump
 Manual switch pneumatic cylinder
 Pressure gauge
 Pressure controller
 Power supply
 Compressed air, In- & Output
 Jack hoses
 Sensor Connection

11	Manifold
12	ConductorPosition sensor
13	Compressed air supply pneumatic cylinder
14	Quick clamping lever
15	Pneumatic cylinder
16	Signal light blue, pneumatic cylinder down, block exhausted
17	Horn
18	Signal light green, pneumatic cylinder up, cylinder may be fold open



Range of application and function

PUR adhesives are used for applications with high demands on the stability and durability of adhesion. Fields of application include furniture making, lamination of worktops, the automotive sector etc. As PUR adhesives quickly react with humidity and harden, the melter must be easy to refill and operate.

PressMelt processes moisture-cure reactive (PUR) hot melt adhesives in foil encased slugs up to 150 mm in maximum diameter.

It is not possible to use PUR granules or PUR slugs that are not sealed in a moisture-tight aluminium compound foil as well as thermosetting material and solvent-based adhesives.

Function:

If the fill level in the glue tank is too low, PressMelt is heated to the programmed operating temperature. The pneumatic cylinder presses the PUR block onto the melting plate until the glue tank is filled again.

Installation

Checking of the components

After unpacking all the components the PressMelt as well as the hotmelt hoses and guns should be checked to see any damage during transit has occurred. In the case of damage please contact the UES AG immediately.

Part list PressMelt

- PressMelt unit
- Manual

Assembling and applying the tank unit



Warning! The tank system must be connected to the production appliance using screws by which the risk of injury in the event of the tank system falling off is reduced.

The application unit should be positioned in such a way that an ergonomic operation is assured. Especially when using the operation panel, filling the tank or during maintenance work to change a filter ergonomics are of great relevance.



Electrical connection



Warning! Works are only allowed to be conducted by qualified personnel. The power supply must be disconnected.

Necessities: 400-V- (3L/N/PE/50 Hz) socket/connection. The safeguarding per phase is not allowed to be more than max. 16 A! As an option the system can be provided with a supply cable.

Hose connection

Connect the hotmelt hose to the manifold (11) using a SW 19 open-end wrench.

Air connection

The pressured air supply is controlled by the software of the PressMelt.

Connect the pressured air hose to the rapid coupling. Pressured air supply for levelling the pneumatic cylinder: <u>Input</u>.

Pressured air supply for opening and closing the module: <u>Output</u>.

To drain off residual pressure, the closing of the modul can be retarded by use of the system parameter ZVAGF.

Switch pneumatic cylinder (4) <u>on</u>: cylinder goes down. **Do not switch on when the cylinder is folded open!**



Pressured Air: Output

Input

Filling the tank

Never compound different glues! Please mind the manufacturers safety instructions! Never exceed the specified temperatures to melt the glue!



- Raise the pneumatic cylinder. Once the green signal lamp is on the cylinder may be fold open.
- Remove glue overlefts from the tank.
- Slit the bottom of the PUR pack circular.
- Insert the PUR pack into the tank with the opening facing downwards.
- Close the tank lid.
- Switch on the pneumatic cylinder (4). The cylinder presses the PUR block down.



The unit was tested before delivery.

Please check if glue overlefts remain in the tank and remove these before commissioning.



Operation

Switching the unit on

The tank unit is now set to your requirements.

Use the main switch (2) to turn the unit on. Press the ON button at the operation panel for at least 3 seconds.

Information on the display

The display gives you all the important information on the status of your unit.

• ENTER: Changeover between status and temperature display.

• ESC: Activates and respectively deactivates the scan-mode.

When the scan-mode is switched off the desired zone can be reached by using the arrow buttons. Now you can continuously supervise the selected zones. The display provides information on the status of the pump and the heating zones.

Status display:

Treet	Obatura
Heat	Status
Pump	Off
Tank	HEAT
Manifold	HEAT

If the display is blinking an aberration from programmed temperature setting has occurred. Should a pump delay have been programmed, it will appear accordingly.

The ENTER button enables a changeover to the temperature status. Now the current and set temperatures can be seen.

Temperature display:

Heat	Temp	Set	ĺ
Tank	100°C	100°C	
Manifold	100°C	100°C	
Hosel	100°C	100°C	

> By pressing ENTER it is possible to go back to the status display.

The display informs you on the ready-for-operation status of your tank system.

• The pump has reached the switch-on condition.

• All active heating zones have reached their set-point values.

Readiness for operation:

ſ		
	READY	Status
L.	Pump	Off
L.	Tank	Ready
	Manifold	Ready
L		_

Switching the unit off

The manual control: Switch the unit off by pressing the OFF button. Please press the ON button for at least 3 seconds.

The weekly programme or respectively the superior control: The unit will be switched off according to the set points.

PressMelt Operating Manual



The Operation Panel



PressMelt is equipped with a real-text display. Next to this 6 light emitting diodes give information on the status of the unit.

Display shows		Function
Illuminating diode	OK	Unit ready for use
Illuminating diode	Run	Steering is switched on
Illuminating diode	Stop	Steering is switched off
Illuminating diode	Fault	Unit error
Illuminating diode	Timer	Weekly programme set
Illuminating diode	Standby	Temperature lowering activated



Operation

The following is described in this section:

- Parameters and setting possibilities
- Operation
- Error notifications

Prior to commissioning your new tank system, various functions must be programmed. The control facilitates adaptation of the tank system to your requirements. Please follow these instructions and only allow alterations to settings to be carried out by instructed and qualified personnel.

After pressing the main switch, the following will appear on the display:

System:	Off
Control:	Digital
Time:	12:12
Date:	01 10 2006 Su
Date.	01.10.2000 54

The different parameters can be reached in the following way:

Menu	Summary of various functions
Temp	Temperature adjustment of the heating zones
Timer	Activating or deactivating of the weekly programme
Shift – Timer	Parameters of the weekly programme
Standby	Activating or deactivating of temperature lowering
Shift – Standby	Parameters of temperature lowering

PressMelt Operating Manual



Menu

Menu Function	Selection	Description				
Format		Hose- and gun groups can be activated for different products				
Pump		Conditions for switching the pump on				
Option	ISuperior paran	eters are summarised here				
	Max. temp	Upper border of temperature-setting possibilities				
	Overheat	Setting of overheating alarm				
	Alr Arch	Error memory				
	Start hose	Start of hose heater				
	Start gun	Start of gun heater				
	Pass opt	Activation of password/ deactivation of option parameters				
	Pass par	Activation of password/ deactivation of all parameters				
	Change-over	Changeover between degrees/ degrees Fahrenheit				
	Language	Language selection				
	AGF 1	Solenoid valve: Actuation				
	AGF 2	not assigned				
	AGFV	Solenoid valve: Switching off delay				
Clock		Set time and date				

• The menu points can be reached by pressing the arrow buttons (Up/down).

- By using the ENTER button the value can be edited/ set new/changed and can either be fed in with the arrow buttons or typed in via the use of the number block; by activating the ENTER button the changes will be saved.
- The use of the Esc- button enables you to leave the momentary menu level.



Format

In a format, connections/hoses that are used for a specific glue pattern are activated. The corresponding assignments can be adjusted by the controller of the MaxMelt. Eight formats (A-H) can be saved. If different glue patterns are needed within one production line, the corresponding formats can be triggered successively in any order. This will be done automatically by the superior control (PLC) of the master machine.

Even if just one format is needed, the corresponding connectors must be activated. Default setting for the master machine is Format A, all connectors at the MaxMelt deactivated (0).

Call up menu point Format

Connect1	0	0	0	0	0	0	0	0
Connect2	0	0	0	0	0	0	0	0
Connect3	0	0	0	0	0	0	0	0
Connect4	0	0	0	0	0	0	0	0

Format->	A	в	С	D	Е	F	G	
Connect1	0	0	0	0	0	0	0	
Connect2	0	0	0	0	0	0	0	

Setting up a format

- Choose the connection to be adjusted by using the arrow buttons, press ENTER. The current status is blinking.
- Choose the format by using the arrow buttons and activate (1) or disable (0) the connections.
- Confirm with ENTER.

Logical selection of the different formats at the master machine

After having set up the formats at the MaxMelt, the controller of the master machine is able to trigger these formats in any order. For this, adjust the digital inputs DI 1, DI 2 and DI 3 for each needed format as shown in the table below.

If you do not undertake a circuit connection (both entries=0), format A will be addressed. The selection of the format can be seen on the status display.

DI 1	DI 2	DI 3	Format
0	0	0	А
0	0	1	В
0	1	0	С
0	1	1	D
1	0	0	E
1	0	1	F
1	1	0	G
1	1	1	Н

To set up the sequence of formats with the master machine, please refer to the corresponding manual.



Pump (condition of switching on)

When are the glue pump and the enabling for the superior control switched simultaneously? A distinction must be made between different switching-on conditions (function settings).

Since complete melting of the adhesive cannot always be guaranteed (depending on the adhesive) even after reaching the temperatures, both below mentioned conditions could be occupied with a release delay. The pump is not activated until the release delay time has passed.

The delay time starts anew following each switching on. The delay time does not start anew following deactivation of the temperature lowering.

Auto

Dependent on all heating zones i.e. tank and channels called up (tubes and heads) must have reached the set target temperatures.

Temp

Dependent on the heating zone "Tank" i.e. as soon as the tank has reached the set release temperature.

On

Off

The pump can be switched on and off manually.

However, the setting is maintained even after exiting the menu point; consequently ensure beforehand that your desired setting ("Temp" or "Auto") has been called up.

Call up menu point **Pump**

Function	Temp	
Temp	130 °C	
Delay	0 min	
-		

Setting the function

- Call up "function" with arrow buttons and press ENTER.
- The function last called up flashes.
- Set the desired function with the arrow buttons save with ENTER abspeichern.

Setting the release temperature (for the "Temp" function)

- Call up "Temp" by using arrow buttons and ENTER.
- The release temperature last set flashes.
- Select the desired temperature with the arrow buttons and store with ENTER.

Setting release delay

- Call up delay with arrow buttons and ENTER
- The delay time last entered flashes.
- Set the desired delay time with the arrow buttons and store with ENTER.



Option (system parameter)

Parameter	Setting area	Factory setting	Description
Maximum Temperature setting	0-228 °C	195 °C	Maximum temperarure setting
Excess temperature alarm	0-228 °C	200 °C	Alarm temperature. Reaching this leads to switching off of the unit
Temp. alarm	0-30 °C	10 °C	Temperature warning + / -
Alarm archive	Display		Error memory
Start hose	0-100 %	80 %	Start of hose heating (dependent on the tank temperature)
Start gun	0-100 %	80 %	Start of gun heating (dependent on the hose temperature)
Password (Option)	Yes/No	Yes	Password bar capable of being switched off for all parameters
Password (Parameter)	Yes/No	No	Password barrier is able to be activated for all parameters
Conversion	°C/°F	°C	Conversion of ° Celsius to °Fahrenheit
Language	En, Ge, Es, Fr, Tu, NI, Sw,	Ge	Display language selection
AGF 1		On	Switches the solenois valve
ZVAGF	sec	0=no delay	Switch off delay for the solenoid valve



Description of system options (system parameters)

Maximum Temperature

The upper border of the temperature settings is determined here. A higher temperature cannot be programmed.

Overheating temperature alarm

Here, the maximum overheating temperature is set. If it should be overridden, the unit switches itself off. An appropriate notice will appear on the display.

Temperature warning

If the variance exceeds or falls below the set-point value an adequate warning is displayed.

Alarm archive

Provides the possibility to look into the internal error memory. The last 5 occurred errors are saved with date and time.

Starting of hose

Determines the last time of connection with hose heating. Basis is the reached temperature if the tank.

Starting of gun

Defines the connection time of the gun heating. Basis is the reached hose temperature.

Password

The option parameters are password protected. However, the password barrier can be switched off. The password is 1 - 5 - 0 - 7. All other parameters are not password-protected in factory settings; the password barrier can be switched on.

Password parameter

When you have activated the password for the parameters an adjustment of the preset values cannot be changed anymore without entering the password. The password is: 2 - 4 - 0 - 1.

Changeover

The running mode is changed over from °C to ° Fahrenheit here. If the running mode is changed, all temperatures of the other menu points and heating zones are automatically aligned.

Language

Set your desired language.

The clock

Call up menu point **Clock**



Configuring the clock

- Use the arrow buttons to reach the adequate menu point to give in the values.
- Press ENTER bestätigen (blinking).
- Use the arrow buttons to change the value.
- Confirm with ENTER.



Setting the temperature of the heating zones

Please derive the recommended glue operating temperature form the manual of the glue manufacturer

Call up menu point **Temp**

Tank	100°C
Manifold	100°C
Schlauch 1	100°C
Kopf 1	100°C
_	

Please notify that you now have to set two separate heating zones.

- Tank heating zone
- · Manifold heating zone

Subsequently configure the temperatures of the hoses and guns.

Configuring the set-point values

- Select the desired heating zone with the arrow buttons.
- Edit the old value by pressing ENTER and change it with the use of the arrow buttons or type the numbers in directly.
- Press ENTER to save.



Timer (Weekly clock timer)

The timer enables you to

- switch the unit on and off individually on every day of the week
- determine operating breaks with temperature lowering (standby)
- · configure both above-mentioned options at the same time

The programme is arranged in the commando rows 1 to 56.

Two switching-on, two switching-off and two pause times (Temperature lowering = "Standby") can be programmed for each day.

Commando rows not being used are set onto "Disabled".

The setting menu can be reached by pressing Shift and (Config.) timer

Call up menu point Config Timer

1.	Mo	06:00	ON	L
2.	Mo	12:00	OFF	L
з.	Mo	13:00	ON	L
4.	Мо	22:00	OFF	L

Configuring the weekly programme

- Select the commando row 1 to 56 via the arrow buttons
- In order to reach the according input box (weekdays/hours/minutes/functions) the arrow buttons also have to be used (left/right)
- Select with ENTER (display will start to blink) and change value with the arrow buttons
- Conclude by pressing ENTER

Activation of timer (weekly programme)

By pressing the timer button (min. 4 seconds) the timer programme is activated. The LED-timer is switched on.

Deactivation of timer (weekly programme)

By pressing the timer button (min. 4 seconds) the timer programme is activated. The LED-timer is switched off.

1.	Мо	06:00	Ein
2.	Fr Mo	22:00 00:00	Aus Dis
4.	Мо	00:00	Dis

Examples of setting a weekly programme



The tank system is

- 1. Switched on Mondays at 6:00 a.m.
- 2. Switched off on Friday at 10:00 p.m.

3.– 56. The following commando rows are not in use and consequently are disconnected with "Dis(abled)"

1.	Mo	07:00	On
2.	Mo	12:30	Stby
3.	Mo	13:30	On
4.	Mo	22:00	Off

The tank system is

- 1. Switched on Mondays at 6:00 a.m.
- 2. The temperature lowering is activated at 12:30 p.m.,
- 3. And deactivated at 13:30 p.m.
- 4. Switched off Mondays at 10:00 p.m.

(5. - 56.) The following days can be programmed accordingly. A logical sequence is to be maintained. There is no need to programme all commando rows – cut them off via the "Dis(able)" function.



Standby (Temperature lowering)

Temperature lowering for all heating zones during production pauses.

Attention! Respectively set the temperature difference to set point temperatures!

During long downtimes the standby function can be activated to conserve your tank and glue.

Which possibilities exist to use the standby function?

Manually	 You can directly activate and deactivate the standby function You activate standby, a predetermined time span expires and the standby function is automatically deactivated
Timer	The standby times are deposited in the timer programme (weekly programme)
Absent	• A superior control (for example SPS) activates and deactivates the standby function
Automatically	• Your unit automatically recognises a production standstill and activates the standby function. The time is "freely" adjustable.

Call up menu point Config Standby

Status	Aus
Temp	30 °C
Zeit	0 min
Auto	0 min

Configuring the parameters for the standby function (temperature lowering)

- Press Shift and (Config.) standby to reach the setting menu.
- Use the arrow buttons to reach the different functions.
- The changes are also made with the arrow buttons and ENTER.
- Save the changes with ENTER.

Temp

Difference in temperature (by how many degrees shall the temperature be lowered?)

Time

Do you desire a manual lowering and after a certain time an automatic heating up? If so, set a time. After the set time has expired the standby function will be deactivated and your unit will heat up. If not, program the time at 0 min. In this case you have deactivate the standby function manually.

Auto

When the automatic temperature lowering is activated the COMPACT2 unit recognises a production standstill. In this case a digital entry (as to be seen on interface signals) is utilised. Should no signal be recognised in the set time the standby function will be activated.

An afresh signal is enough to deactivate the unit or the standby button has to be pressed manually. In order to the auto standby function a time must be set.

If the function is no desired to be used, set the time at 0 min.

Distant

The standby function can also be used with a superior control (as to be seen on interface signals). The control is always superior, meaning that – case being that the standby signal is "on" – the last mentioned functions are not taken into account.



Manual activation of the standby function

By pressing the standby button (min. 4 seconds) the function is activated and the unit driven into the subsidence. The LED standby is switched on.

Deactivation of the standby function

The pressing of the standby button (min. 4 seconds) deactivates the standby function due to which the unit starts heating up again. The LED standby recedes.



Cleaning



Before cleaning is carried out the appliance should be heated to the processing temperature of the latest PUR block used. Hot melt in the tank should never be removed with hard tools as this could damage the Teflon surface of the tank.

- Raise the pneumatic cylinder and open the tank by folding down the cylinder. Remove the PUR block packaging.
- To avoid a reaction between left adhesive and humidity quickly fill detergent granules (Jowat 930.74) into the tank so that the heater zone is covered.
- Wait until the granules are melted completely.
- Switch on the pump <u>without acceptance of glue</u> and let the mixture circulate through tank, manifold, filter and return for one hour.
- Open the relief valve and let the mixture drain off.
- Check the filter and exchange it either with a new or cleaned filter.
- Refill the tank with some detergent granules. Once the detergent is melted, let it drain off through the application guns.

Maintenance/Repair work



Attention! All maintenance work on the appliance is only to be carried out by qualified personnel and when the electrical/compressed air supply has been turned off.

The following safety procedures are to be adhered to when carrying out maintenance work:

- No inspection or adjustment/set up work is to be undertaken without the presence of a second employee, who is able to call for assistance/help in the event of an accident/problem
- The electrical power supply must be switched off before opening the switch cabinet or any safety guards, or when electrical components are exchanged or removed!
- Before maintenance work is carried out on the appliance: rings, necklaces, watches and bracelets etc. have to be removed.
- If possible always use a rubber mat for insulation and try to avoid working on a wet or damp floor!
- Safety glasses, gloves and clothing should be worn to protect against possible hot glues being sprayed or against contact with a hot surfaces or appliance parts!
- Before any work is to be carried out the operating pressure of the adhesive should be set to zero (0), the pump switched off and any remaining adhesive drained off by opening the drainage valve.
- No open fire, sharp pointed object or needle should be used when cleaning the spray nozzles as this could lead to damage of the nozzles themselves!
- If a glue leak occurs, operation/maintenance work should be ceased immediately!
- Only original spare parts should be used!

The UES TANK SYSTEM matches the most up to date standards in gluing technology and is fitted with many special features, which help you in the day to day running of the appliance and thus contribute to a high level of safety.



Error notifications

Error notification	Description
SENSOR DEFECTIVE	Sensor defective or not connected
HEAT. DEFECTIVE	The heating is not working
UNDERTEMP	The temperature is below the set temperature warning
OVERTEMP	The temperature is above the set temperature warning
ALARM TANK	Excess temperature alarm in tank heating zone
ALARM MANIF	Excess temperature alarm in manifold
ALARM GUN n	Excess temperature alarm gun n
ALARM HOSE n	Excess temperature alarm hose n

Mechanical failures

Problem	Possible causes
The pump does not work.	 Tank temperature is too low Module is blocked Filter is blocked Micro switch in the pump cylinder is defect Control sensor is defect
The pump is working very quickly.	 Not enough glue in tank Connector is leaky Ball bearing setting in pump is blocked => Disassemble the pump and clean the valve seat; it is possible that carbonisation has taken place here (carbonisation storage), which can reduce correct sealing
The gun administers no glue, even though the valve is active.	 Nozzles are blocked (=> clean) Gun has not reached operating temperature Pump is not working



Pin Assignment (depending on model)



HAN 10	
PE	Earth conductor
1	Heating Gun
2	Heating Gun
3	Sensor Gun
4	Heating Hose
5	Sensor Hose/Gun
6	Heating Hose
7	not assigned
8	Sensor Hose
9	not assigned
10	not assigned



UES	Compact/Serie 3000
1	Heating Gun
2	Heating Gun
3	Sensor Gun
4	Heating Hose
5	Sensor Hose/Gun
6	Heating Hose
ΡE	Earth conductor
8	Sensor Hose
9	not assigned
10	not assigned
11	not assigned
12	not assigned



Hose Socket				
1	Heating Gun			
2	Heating Gun			
3	Sensor Gun			
4	Sensor Hose			
5	Sensor Hose/Gun			
PE	Earth conductor			

PressMelt Operating Manual



ArtNo.	Description
106395	Gear pump 7.3 cc/rev
109039	Mainboard
109058	CPU Adapter
000711	Main switch
100238	Solenoid valve 3/2-ways
100243	Solenoid valve 4/2-ways
109038	Electronic set (Mainboard, CPU Adapter, Foil, Display)
138609	Cylinder assemblies PressMelt2
138560	Heating ring, complete PressMelt2
138610	Sensor/Thermostate PressMelt2
138611	Drive set PressMelt2
138612	Heating set PressMelt2
138608	Sealing set PressMelt2
138613	Optical and acoustic detectors set PressMelt2
138614	Filter set PressMelt2
138615	Solenoid valve set PressMelt2
138616	O-Ring Set PressMelt2
138617	O-Ring Set/Cartridge replacement PressMelt2
138618	O-Ring Set/Filter PressMelt2
138619	O-Ring Set/Pressure relief PressMelt2
138620	O-Ring Set/Adapter-Manifold PressMelt2
106577	Pressure relief valve
135130	Tankfilter for UES-P14E (ProBlue compatible pump)



Electrical connections

Mainboard Plan



Connection to mains

Connection PE as lug / connectors L1-L2-L3-N (able to be dismantled) The electrical contact to the mains is established by this connection.

Digital output connections

DO1-DO5 first plug connection (able to be dismantled) DO6-DO8 second plug connection (able to be dismantled)

Digital input connections

DI1 – DI6 (external) first plug connection DI7 – DI11 (internal) second plug connection



Channel interface and fuses

The external heaters are joined to the main board via a connector.

Every channel is secured individually. Plug-in positions and fuses are to be concluded from the following table.

Channel	Sensor connection	Heating connection	Fuse		
Hose 1	1	C1	F7		
Gun 1	1	C1	F6		
Hose 2	2	C2	F9		
Gun 2	2	C2	F8		
Hose 3	3	C3	F11		
Gun 3	3	C3	F10		
Hose 4	4	C4	F13		
Gun 4	4	C4	F12		
Hose 5	5	C5	F15		
Gun 5	5	C5	F14		
Hose 6	6	C6	F17		
Gun 6	6	C6	F16		
Hose 7	7	C7	F19		
Gun 7	7	C7	F18		
Internal heatings					
Preheating		T1/N	F3		
Tank		M/N	F5		

Pump connection and fuse

The glue hose is connected to the main board and secured by a fuse. Plug-in position pump: P Pump fuse: F P

Thermostat and fuse

The unit disposes of a overheating deactivation with a thermostat. The safety circuit is connected to the main board and secured with a fuse. Plug-in position thermostate: Thermostate Thermostat fuse: F TH



Technial Data

	PressMelt
Weight approx.	40 kg
Protection class	IP 53 (without Z)
Ambient temperature limit	5 – 45 °C
Glue pump(s) ¹	Gear pump 7.3 ccm/U
Working range pump	max. 25 bar
Nominal rotation speed	93 r/min
Tank size	suitable for 2 kg slugs
Melting rate ²	8 l/h
Delivery rate ³	39 l/h
Viscosity range max. Pa·s	max. 60
Operating temperature	50 – 195 °C (short term 220 °C)
Excess temperature shut down	Hardware: Thermostate
Temperature sensor	
Temperature sensor	Extern heaters: switchable PT 100/Ni120
Control accuracy	+ / - 1 °C
Heater (Unit)	2 Heater, tank and manifold, separate controlled
Heater (extern)	4 (2 Hoses + 2 Guns)

¹ Pump motor switchable from extern (level monitoring)

² Melting rate depending on the glue. (Ascertained with Jowatherm-Reaktant 607.40)

³ Delivery rate depending on the glue. (Ascertained with Jowatherm-Reaktant 607.40)

Electrical Data

	PressMelt
Supply voltage	3L/N/PE, 230/400 V
Tolerance voltage	+/- 10 %
Pre-fusing max.	3 x 16 A
Frequency range	50/60Hz
Connection power ¹ min. (unit)	3.5 kW
Connection power ¹ max. (unit + extern)	6 kW

¹The connected rating depends on the installed hoses and guns.



Digital In- and Outputs









Digitale Eingänge/Inputs



EC Declaration Of Conformity/EG-Konformitätserklärung

Products/**Produkte** PressMelt

are in conformity with the provisions of the EC Directive(s) when installed in accordance with the installation instructions contained in the product documentation and the standards and/or technical specifications referenced below have been applied to:

stimmen mit den Bestimmungen der EU-Richtlinie(n) überein, soweit sie gemäß den Montageund Betriebsvorschriften, wie in der Produktdokumentation angegeben, installiert sind, und die nachstehend aufgeführten Normen und/oder normativen Dokumente wurden angewandt:

Applicable directives/**Richtlinien** EMV Richtlinie 2004/108/EG Niederspannungsrichtlinie 2006/95/EG Maschinenrichtlinie 2006/42/EC

Standards used/**Angewandte Normen** EN 60204-1 EN 6100-6-2 EN 55011 EN ISO 13732-1 EN 12100

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CTO, Technischer Leiter

UES AG Breuershofstr. 48 D-47807 Krefeld

PressMelt Operating Manual