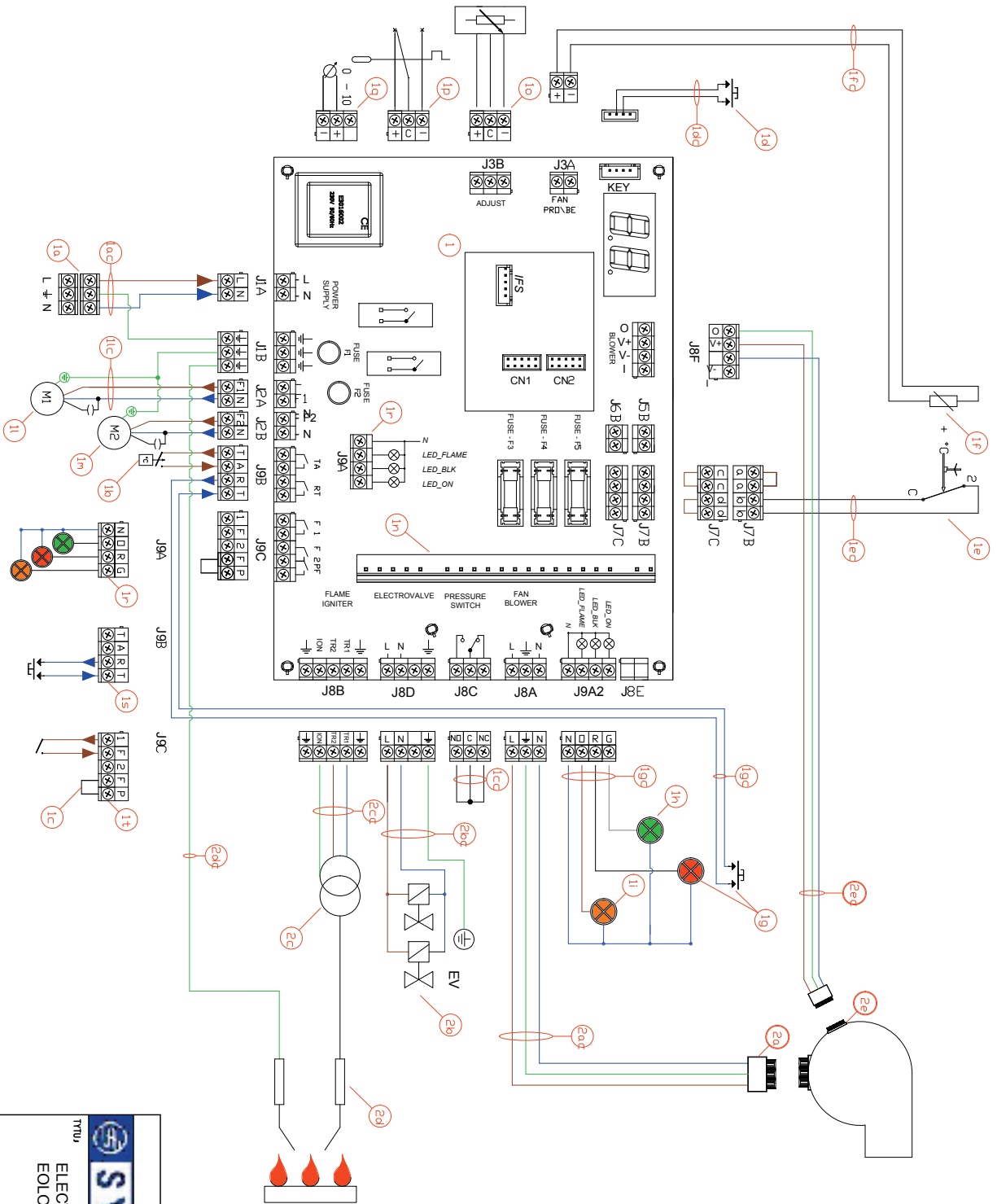


Electrical diagram EOLO B - AS version

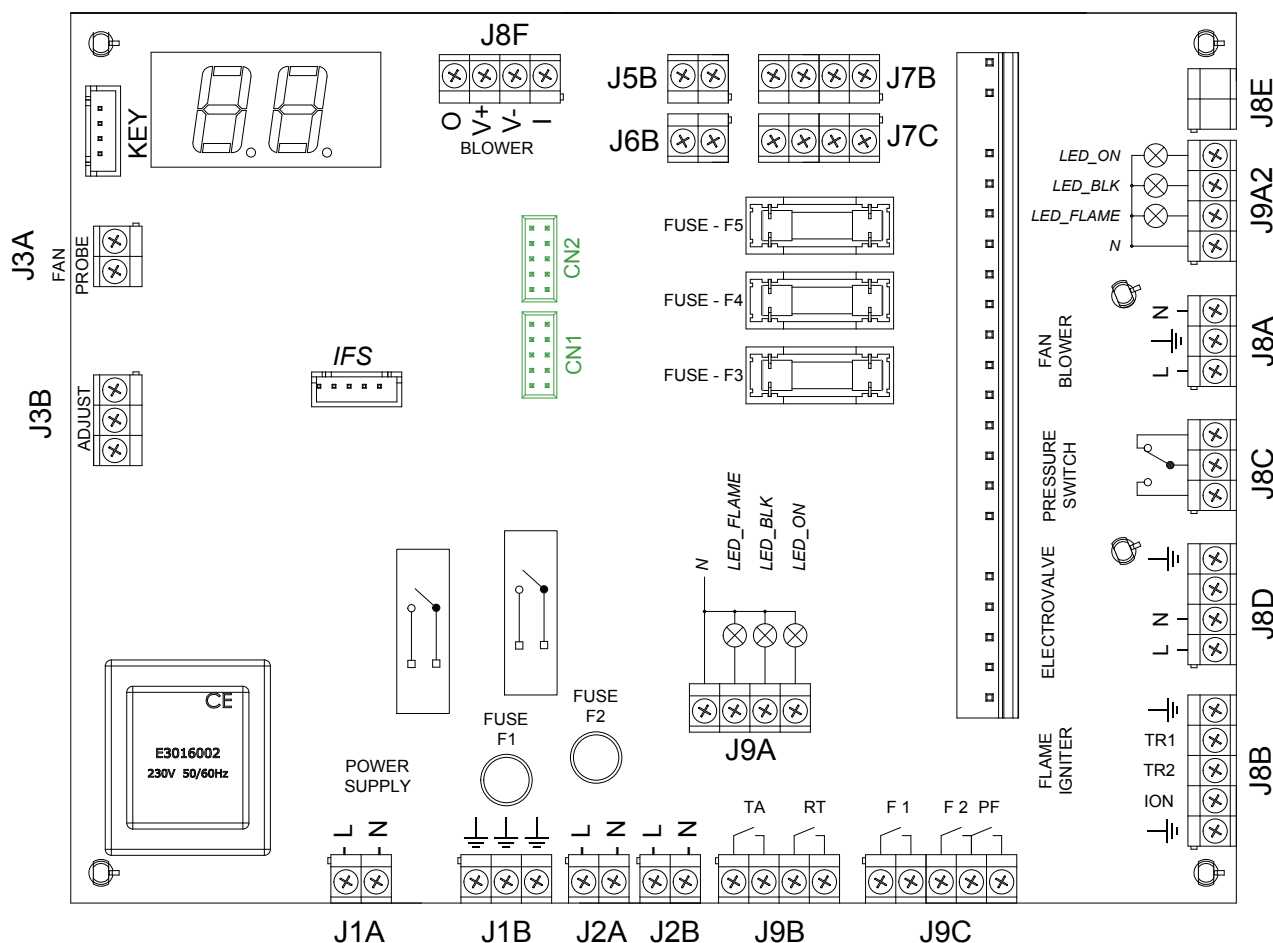


NIE SKALU RYSUNKU PPRAWKA	TTUJ
ELECTRICAL DIAGRAM OF GAS HEATERS EOLO B - VERSION AS	
NR RYSUNKU SKALAMI	A4
KWIECIEŃ 1 Z 1	

Description of electrical diagram EOLO B - AS version.

Description of mineboard SCP674V030						
1	Display		Digital display with icons			
	Key		Sock of programming button			
	IFS		Serial interface TTL			
	CN1 – CN2		Extention slot for additional functionality			
	Fuse F1		Fan fuse socket (a)			
	Fuse F2		Fan fuse socket (b)			
	Fuse F3 F4		Burner fuse socket			
	Fuse F5		Actuator fuse socket			
	CONNECTIONS	Pos.	Description	socket	No.	D wire
		1a	El. supply 230 V. 50 Hz. 1F	J1A	1ac	3 x 1 mm2.
		1b	Heating mode. Connection TA close = heat	J9B - TA	*-----	2 x 1 mm2.
		1c	Start up the operation of the second fan in parallel with the first	J9C - PF	*-----	*-----
			F1, F2 - Manual fan operation	J9C – F1	*-----	*-----
		1d	Programming button	KEY	1dc	2 x 0,5 mm2
		1e	Safety thermostat with manual unlocking	J7C – N.C.	1ec	2 x 1 mm2
		1f	Air supply temperature sensor - NTC 100	J3A	1fc	2 x 1 mm2
		1g	Reset button	J9B – RT	1gc	6 x 0,75 mm2
			Red lamp - lock burner	J9A2		
		1h	Green lamp – el. supply on (or burner operation with Genius E82).	J9A2		
			orange lamp – burner operation	J9A2		
1l		Fan 1 connection	J2A	1lc	3 x 1 mm2	
1m		Fan connection - if installed	J2B	1mc	3 x 1 mm2	
1n		Slot of burner controller GENIUS				
1o		Modulation of the burner via 10K potentiometer		*-----	*-----	
1p	Burner modulation through two stage thermostat		*-----	*-----		
1q	Burner modulation through signal 0 – 10 V	J3B	*-----	*-----		
1r	Burner control socket	J9A	*-----	*-----		
1s	Reset button	J9B - RT	*-----	*-----		
1t	Manual ventilation on	J9C – T1	*-----	*-----		
2	Premix burner					
	Pos.	Description	socket	No.	D wire	
	2a	Power of gas blower	J8A	2ac	3 x 1 mm2.	
		PWM of gas blower	J8F	2ec	3 x 1 mm2.	
	2b	Burner solenoid valve	J8D	2bc	3 x 1 mm2.	
	2c	Burner ignition transformer	J8B	2cc	3 x 0,75 mm2.	
2d	Earth electrode	J1B	2dc	1 x 1,5 mm2.		

Mineboard - SCP674V030. List of parameters.



Pos.	Parameter	Range	Unit	Def.
t1	Temperature measured by NTC sensor - ONLY FOR READING	0...99		
SP	Manually changing the power of the burner. 0=rL; 100=rH;	0...99	%	99
/P	Presence of potentiometer;	0...1	-	0
	/P = 0 : not connected;			
	Change the burner's power through the SP parameter			
	/P = 1 : External power regulation of the burner (potentiometer, thermostat, signal 0-5 V.)			
	If SCP674V030 has a slave extension don't use external devices in J3B			
L1	Type of reset			
	0 = Manual – With GENIUS M82;			
	1 = electrical – with GENIUS E82;			
	2 = Electronic with burner control plate that outputs red light only during burner lock (control board in preparation).			
rL	Minimum burner power = minimum PWM value	0...rH	%	*...
rH	Maximum burner power = Maximum PWM value	rL...100	%	*...
Y0	Pre washing time	10...99	Sec.	10
Y1	time of starting power	0...99	Sec.	0
Y2	Starting power of burner - vales PWM 0...99 %.	0...99	%	*...
Y3	Ventilation temperature point. Setting the fan on / off temperature.	0...80	°C	40
Y4	Fan delay time after burner switched off	0...99	Sec.	30
Y5	Hysteresis of ventilation thermostat	3...15	°C	5
HH	Software version (READ OUT ONLY)	-	-	-

Description of the display indications.

DISPLAY	ICON	BURNER STATUS	POSSIBLE CAUSE	SOLUTION
		OFF	contact TA – open	close TA contact
		OFF <i>Error</i>	contact J7B = open	close J7B contact
		OFF <i>Error</i>	contact J7C = open	close J7C contact + ush for 5 sec. reset button RT
	 <i>flashing icon over 2 minutes of locked burner</i>	OFF <i>Error</i>	Locked burner - no ionisation signal	a) Check the gas supply b) check the ionisation electrode for dirt c) remove from the sock and reinsert GENIUS E82 + push for 2 sec. reset button RT
		OFF	post ventilation of combustion chamber - after switch off burner	
		START	pre washing of combustion chamber - after switch on the burner	
		Starting fase	stating cycle	
<i>0...99</i>		Burner works	normal working	

	Writing or canceling memory of errors	
	reset of burner	a) Electrical reset: off - on electrical supply 230V b) Manual reset: close contact RT in mainboard of heater
	error of wentilation temperature probe .	a) NTC sensor in short-circuit or not connected b) temperature over instrument limits