UNO/CITY MAINBOARD

			INDIC	ATIO	N			
N°		ERROR	Digit Ana log		Displ ay Icon	Dete ct	Cancel	
1		False flame (Flame detect with gas valve off)	E 20		A,M	3 sec	1 sec End error	
2		Flow sensor open circuit	E 06		A,M	1 sec	1 sec End error	
3		Flow sensor short circuit	E 07		A,M	1 sec	1 sec End error	
4		Return sensor open circuit	E 04		A,M	1 sec	1 sec End error	
5		Return sensor short circuit	E 05		A,M	1 sec	1 sec End error	
8		Outdoor sensor open circuit (if at power up sensor is connected, then I'll check if it became open)	E 30		М	1 sec	1 sec End error	
9		Outdoor sensor short circuit	E 31		М	1 sec	1 sec End error	
10		Room sensor open	E 80		М	1 sec	1 sec End error	
11		Room sensor short	E 80		A,M	1 sec	1 sec End error	
12		Fumes temperature high (Over 68°C - MI version)	E 68		Α	30se c	1 sec End error	
15	ATILE	Too many reset switch pressed (5 times in 15 minutes)	E 99		M	After 5 times		
16	VOL	Fault Fumes Pressure Switch (on at first burning sequence)		Fu mes Led	A, M	3 sec.	1 sec End error	
17		Fumes Pressure Switch error (off at fan on during burning sequence); Fumes Sensor disconnected (MI)	E 34	Fu mes Led	A,M	20 sec.	1 sec End error	
18		Plausibility test failure	E 95		A, M	40 sec	ON/OFF	
20		No flame after safety timer	A 01	Fla me led	A	7 sec.	Reset SW	
21		Water flow check failure	A 02	R+Y	Α		Reset Switch	
22	ILE	Over heat (safety thermostat open)	A 03	Ove r he -at led	A	1 sec	Reset SW	
23	VOLAT	CPU fault (Rom, Ram, Eeprom, Stack, Register, instruction, timeslot, sequence error)	A 99		А		Reset SW	
24		MCU fault (Gas feedback, WD feedback error, ADC check fault)	A 98		Α		Reset SW	
25								
26					j	1		

BT2 MAINBOARD (bitermic world)

			IN	DICATION	V			
N°		ERROR DESCRIPTION	RC- Displa y	- 6		Detect	Cancel	
1		Pump protection (Water flow sw OFF during 40sec. of pump ON)	E 02	Pump led		40 sec	ON/OFF SW ,(reset)	
2		DHW sensor open circuit	E 04		M	1 sec	1 sec End error	
3		DHW sensor short circuit	E 05		M	1 sec	1 sec End error	
4		Heating (Send) sensor open circuit	E 06		M	1 sec	1 sec End error	
5		Heating (Send) sensor short circuit	E 07		M	1 sec	1 sec End error	
8		False flame (Flame detect with gas valve off)	E 20		A	1 sec	1 sec End error	
9	VOLATILE	Outdoor sensor open circuit (if at power up sensor is connected, then I'll check if it became open)	E 30		M	1 sec	1 sec End error	
10	ΥII	Outdoor sensor short circuit	E 31		M	1 sec	1 sec End error	
11	/T(Fumes circuit open (MI)	E 32		A	3 sec.	1 sec End error	
12	Λ	Fault Fumes Pressure Switch (on at first burning sequence)	E 33	Fumes Led	A,M	3 sec.	1 sec End error	
13		Fumes Pressure Switch error (off at fan on during burning sequence)	E 34	Fumes Led	A	20 sec.	1 sec End error	
14		Fumes temperature high (over 68°C MI version)	E 68	Fumes led	A	30 sec	16 m. (less 68°C)	
15		Room sensor open	E 80		M	1 sec	1 sec End error	
16		Room sensor short	E 80		M	1 sec	1 sec End error	
17		Too many reset switch pressed on RC (5 times in 15 minutes)	E 99		A	After 5 times		
18		No flame after safety timer	A01	Flame led	A	7 sec.	Reset SW	
19	ILE	Over heat (safety thermostat open)	A03	Overheat led	A	3 sec	Reset SW	
24	OLAT	Fumes circuit logic error	A 97	Fumes led	A, M		Reset SW	
25	NON VOLATILE	MCU fault (Gas feedback, WD feedback error)	A 98		A		Reset SW	
23	Z	CPU fault (Rom, Ram, Eeprom, Stack, Register, instruction, timeslot, sequence error)	A 99		A		Reset SW	

CMP3 MAINBOARD (microgenus world)

				NDICATION			
N°		ERROR DESCRIPTION	RC- Display	Analog	RC Icon	Detect	Cancel
1		Pump protection (Water flow sw OFF during 40sec. of pump ON)	E 02	Pump led		40 sec	ON/OFF SW ,(reset)
2		DHW sensor open circuit	E 04		M	1 sec	1 sec End error
3		DHW sensor short circuit	E 05		M	1 sec	1 sec End error
4		Heating (Send) sensor open circuit	E 06		M	1 sec	1 sec End error
5		Heating (Send) sensor short circuit	E 07		M	1 sec	1 sec End error
6		Return sensor open circuit	E 08		M	1 sec	1 sec End error
7		Return sensor short circuit	E 09		M	1 sec	1 sec End error
8		False flame (Flame detect with gas valve off)	E 20		A	1 sec	1 sec End error
9	Œ	Fumes circuit open (MI)	E 32		A	3 sec.	1 sec End error
10	VOLATILE	Fault Fumes Pressure Switch (on at first burning sequence)	E 33	Fumes Led	A,M	3 sec.	1 sec End error
11	Ю	Fumes Pressure Switch error (off at fan on during	E 34	Fumes	A	20 sec./	1 sec End error
	Λ	burning sequence or at the end of PuP sequence)		Led		4m (PuP)	
12		Fumes temperature high (over 68°C MI version) or fume sensor open circuit.	E 68	Fumes led	A	30 sec	16 m. (less 68°C)
13		Room sensor open	E 80		M	1 sec	1 sec End error
14		Room sensor short	E 80		M	1 sec	1 sec End error
15		Too many reset switch pressed on RC (5 times in 15 minutes)	E 99		A	After 5 times	
16		Outdoor sensor open circuit (if at power up sensor is connected, then I'll check if it became open)	S 30		M	1 sec	1 sec End warning
17		Outdoor sensor short circuit	S 31		M	1 sec	1 sec End warning
18		No flame after safety timer	A01	Flame led	A	7 sec.	Reset SW
19		Over heat (safety thermostat open)	A03	Overheat led	A	3 sec	Reset SW
20	ILE	Fan Error (Vmeasured ≤Vmin more than 100 rpm for 3 seconds)	A 34		A	3 sec	Reset SW
21	VOLATILE	Too Many research of Vc			A	After 3 times	Reset SW
22		EEPROM fault/EEPROM not programmed	A 90		A		Reset SW
23	NON	Hall feedback error	A 91		A		Reset SW
24	N	MCU fault (Gas feedback)	A 94		A		Reset SW
25		Fumes circuit logic error	A 97	Fumes led	A, M		Reset SW
23		MCU fault (WD feedback error)	A 98		A		Reset SW
24		CPU fault (Rom, Ram, Eeprom, Stack, Register, Instruction, timeslot, sequence error)	A 99		A		Reset SW

ACO MAINBOARD

Code	ERROR Description		iler ty Appli		Detect			A: applied/NA: not
				т.				Others
		>	TANK	, CH		÷	er	
		DHW	AN	Only (Reset	Power	
		I	L	0		R	Ъ	
E02	Pump Protect	A	A	Α	Circulation pressure switch=on at Pump output=on for 40sec	-	Α	-
E04	DHW/Tank sensor open circuit	Α	Α	Α	Sensor = open for 1.0 sec during on/off sw = on.	-	Α	1 sec End error
E05	DHW/Tank sensor short circuit	A	A	Α	Sensor = short for 1.0sec during on/off $sw = on$.	-	A	1 sec End error
E06	Flow sensor open circuit	A	A	Α	Sensor = open for 1.0sec during on/off sw = on.	-	Α	1 sec End error
E07	Flow sensor short circuit	Α	Α	Α	Sensor = short for 1.0sec during on/off sw = on.	-	Α	1 sec End error
E08	Return sensor open circuit	A	A	A	Sensor = open for 1.0sec during on/off sw = on.	-	Α	1 sec End error
E09	Return sensor short circuit Floor heating thermostat open	A	A	A	Sensor = short for 1.0 sec during on/off sw = on.	-	A	1 sec End error
E10 E11	Flue pipe sensor open circuit	A	A	A	Floor heating thermostat open for 3 sec in CH mode Sensor = open for 1.0 sec during on/off sw = on.	-	A	1 sec End error 1 sec End error
E12	Flue pipe sensor short circuit	A	A	A	Sensor = short for 1.0 sec during on/off sw = on	-	A	1 sec End error
E17	Niagara Delta Water Flow Check	A	A	A	Return Temperature > Send Temperature +10	-	A	1 Sec Eliu elloi
	(First condition)				•			
E18	Niagara Delta Water Flow Check (Second condition)	A	A	A	Send Temperature – Return Temperature > 40	-	A	
E20	Flame detect with gas valve off	Α	Α	Α	Flame = on during gas valve = off at start-up sequence \rightarrow Restart start-up sequence from pre-purge.	-	Α	End error
E30	Outdoor sensor open circuit	Α	Α	Α	Outdoor sensor is connected at power up. We apply to check	-	Α	1 sec END error
					Outdoor sensor open. It's checked every start-up sequence.			
					And ourdoor sensor is = open for 1.0sec at Risk parameter =			
F21	0.41			-	Calculation.			1 END
E31	Outdoor sensor short circuit	Α	Α	Α	When RISK parameter = calculation, Power=on and Heating request, this item is checked. If sensor = short is detected for	-	Α	1 sec END error
					1.0s, then lockout.			
E33	Fumes Pressure Switch Fault	Α	Α	Α	Fume sw = on during fan output =off, start-up sequence waits	_	Α	End Error
L 33	Tunes ressure 5 witch radit	71	71	11	at first start-up sequence.		71	End Error
E34	Fumes Pressure Switch Error	Α	Α	Α	When fume sw = off is detected during fan output = on,	-	Α	_
-					Burning sequence is restarted.			
E36	Flue pipe temperature too high	Α	Α	Α	???	-	Α	???
E80	Room sensor open	A	A	Α	When TWR-MC1 is installed into Room, Power=on and	-	-	the signal is
E80	Room sensor short	Α	Α	Α	Heating request, this item is checked. This signal is			normal 4 times
					transmitted by Main by every 250msec. If this signal is			on succession
E94	Main-Sub Communication Error	Α	Α.	Α	open/short 4 times on succession, then results in lockout. Communication trouble between Main and Sub CPU		Α.	-
E94 E95	Plausibility test failure		A			-	A	-
E93	•	A	A	A	Refer to paragraph 2.6 a) (5 times in 15 minutes)	-	- A	Refer to "Safety
E99	Too many reset switch pressed	A	A	A	(3 times in 13 minutes)	-	-	documents"
A01	No flame after safety timer	Α	Α	Α	No flame at detection moment (After the THIRD attempt)	Α	-	-
A02	Water flow check failure	A	A	A	Refer to paragraph 2.6 b)	A	-	_
A03	Over heat	Α	Α	Α	NTC1 or NTC2 > 105 deg for 0.3 seconds	A	-	
					Safety thermostat open for 0.3 sec during on/off switch = on			Short-C. need
A07	Flame lift	Α	Α	Α	After the third flame lift occurred in one burner cycle	Α	-	
A33	Fan error	A	A	A	N° rpm<500 x 5sec or differece beetwen measured rpm and the target >300 for more than 3 minutes	A	-	-
A36	Flue pipe too high temperature 3	Α	Α	Α	???	A	-	-
407	times in 30 min	_	_	_	Abnormal Eumas logis for 1.0	Α.		
A97 A98	MCU fault 1 MCU fault 2	A	A	A	Abnormal Fumes logic for 1.0 sec Different logic between Gas valve output and feedback for	A	-	-
A98	MCU fault 2	Α	Α	Α	1.0 sec.	Α	-	-
					Different logic WD pulse output and feed back for 2.8 sec.			
					(50,40 and 60Hz)			
					Gas output = on & IG = off situation for 200 msec is made at			
					start-up sequence. If flame on signal is detect during the			
					period, it's a fault			
				<u> </u>	ADC check fault			
A99	CPU fault	A	A	A	Rom, Ram, EEPROM, Stack, Register, instruction, timeslot, sequence error	A	-	-
					,, *** **			
S01	No flame detection	Α	Α	Α	No flame at detection moment (After the FIRSTH attempt)	-	Α	further attempt
S01 S02	No flame detection No flame detection	A A	A A	A A	No flame at detection moment (After the FIRSTH attempt) No flame at detection moment (After the SECOND attempt)		A A	further attempt further attempt
					No flame at detection moment (After the FIRSTH attempt) No flame at detection moment (After the SECOND attempt) Flame lift during burning	-		