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# ***Modbar Pour Over Alerts and Alarms***

Modbar Pour Over Alarms and Warnings List

| Alerts/Alarms | Full Code | Code on Display | Condition/Parameter |
|---|---|---|---|
| MPO_MODULE_NO_ALARM | 0x0001000 | | |
| MPO_MODULE_ALARM_BOLIER_PROBE_SC | 0x0001001 | **1001** | Boiler probe short circuit alarm. |
| MPO_MODULE_ALARM_BOLIER_PROBE_OC | 0x0001002 | **1002** | Boiler probe open circuit alarm. |
| MPO_MODULE_ALARM_BOLIER_PROBE_OVERTEMP | 0x0001003 | **1003** | Boiler probe overtemperature alarm. |
| MPO_MODULE_ALARM_BOLIER_PROBE_NOT_HEATING | 0x0001004 | **1004** | Boiler not heating alarm. |
| MPO_MODULE_ALARM_HEATER_BROKEN | 0x0001005 | **1005** | Boiler heater broken. |
| MPO_MODULE _ALARM_WRONG_CONNECTION | 0x0001006 | 1006 | Wrong Connection |
| MPO_MODULE _ALARM_HWID_NOT_RECOGNIZED | 0x0001007 | 1007 | Board HW ID not recognized |
| MPO_TAP_NO_ALARM | 0x0002000 | | |
| MPO_TAP_ALARM_PROBE_SC | 0x0002001 | **2001** | TAP probe short circuit alarm. |
| MPO_TAP_ALARM_PROBE_OC | 0x0002002 | **2002** | TAP probe open circuit alarm. |
| MPO_TAP_ALARM_PROBE_OVERTEMP | 0x0002003 | **2003** | TAP probe overtemperature alarm. |
| MPO_TAP_ALARM_PROBE_NOT_HEATING | 0x0002004 | **2004** | TAP not heating alarm. |
| MPO_TAP_ALARM_HEATER_BROKEN | 0x0002005 | **2005** | TAP heater broken. |
| MPO_TAP_ALARM_WRONG_CONNECTION | 0x0002006 | | |
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Note:
SC = Short Circuit
OC = Open Circuit

Guidelines for troubleshooting in the event of an alarm

| Code on Display | Condition/Parameter | Description | Possible cause (from more probable to least probable) |
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| **1001** | Boiler probe short circuit alarm. | The main board is trying to read the temperature of the module boiler probe. But the probe is seen as a short circuit. | • The temperature probe is broken in short circuit.<br>• The temperature probe cable insulation is broken, and the cable is in short circuit.<br>• The connector on the Main board is in short circuit. |
| **1002** | Boiler probe open circuit alarm. | The main board is trying to read the temperature of the module boiler probe. But the probe is seen as an open circuit. | • The temperature probe is not connected to the main board.<br>• The temperature probe is broken in open circuit.<br>• The temperature probe cable is broken, and the cable is in open circuit.<br>• The connector on the Main board is broken. |
| **1003** | Boiler probe overtemperature alarm. | The main board is reading the temperature of the module boiler probe. The temperature is higher than the allowed maximum temperature. | • If the heater was working previously, and maintenance has been performed. Check the machine wiring. Heater cables from heater to power inlet. Heater control cable from SSR to Main Board. |



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| | | | • Some unexpected operative conditions have caused the module to overheat. Try to identify the outline. |
| **1004** | Boiler not heating alarm. | The main board is trying to heat up the module boiler, but the temperature is not rising. | • If the heater was working previously, and maintenance has been performed. Check the machine wiring. Heater cables from heater to power inlet. Heater control cable from SSR to Main Board.<br>• The Heater safety thermal protections are broken.<br>• The Heater is broken<br>• The SSR is broken |
| **1005** | Boiler heater broken. | The main board is not heating the module boiler, but the temperature keeps rising.<br>TURN OFF THE MACHINE IMMEDIATELY | • If the heater was working previously, and maintenance has been performed. Check the machine wiring. Heater cables from heater to power inlet. Heater control cable from SSR to Main Board.<br>• The Heater is broken<br>• Some unexpected operative conditions have caused the module to overheat. Try to identify the outline. |
| **1006** | Wrong Connection | The main board has checked the connections between the module and the TAP, and has found the temperature behavior to be crossed (not linear) between TAP1 and TAP2. | • Check that TAP1 is configured as TAP1, and connected to the two module connectors dedicated to TAP1.<br>• Check that TAP2 is configured as TAP2, and connected to the two module connectors dedicated to TAP2 |
| 1007 | Board HW ID not recognized | The HW ID configuration in not recognized. | • Check the Jumper on JP4 on the main board, for Modbar P.O. the jumper should be on position “A”. |
| **2001** | TAP probe short circuit alarm. | The main board is trying to read the temperature of the TAP boiler probe. But the probe is seen as a short circuit. | • The temperature probe is broken in short circuit.<br>• The temperature probe cable insulation is broken, and the cable is in short circuit.<br>• The interconnections between the TAP and the Module Main Board have some pin in short circuit.<br>• The connector on the Main board has some pin in short circuit. |
| **2002** | TAP probe open circuit alarm. | The main board is trying to read the temperature of the TAP boiler probe. But the probe is seen as an open circuit. | • The temperature probe is not connected to the main board through the various interconnections.<br>• The temperature probe is broken in open circuit.<br>• The temperature probe cable is broken, and the cable is in open circuit.<br>• The connector on the Main board is broken. |
| **2003** | TAP probe overtemperature alarm. | The main board is reading the temperature of the TAP boiler probe. The temperature is higher than the allowed maximum temperature. | • If the heater was working previously, and maintenance has been performed. Check the machine wiring. Heater cables from heater to power inlet, through Main Board.<br>• Check that TAP1 is configured as TAP1, and connected to the two module connectors dedicated to TAP1.<br>• Check that TAP2 is configured as TAP2, and connected to the |



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| | | | two module connectors dedicated to TAP2<br>• Some unexpected operative conditions have caused the TAP to overheat. Try to identify the outline. |
| **2004** | TAP not heating alarm. | The main board is trying to heat up the TAP boiler, but the temperature is not rising. | • If the heater was working previously, and maintenance has been performed. Check the machine wiring. Heater cables from heater to power inlet, through Main Board.<br>• The Heater safety thermal protections are broken.<br>• The Heater is broken<br>• The Main Board SSR is broken |
| **2005** | TAP heater broken. | The main board is not heating the TAP boiler but the temperature keeps rising. TURN OFF THE MACHINE IMMEDIATELY | • If the heater was working previously, and maintenance has been performed. Check the machine wiring. Heater cables from heater to power inlet, through Main Board.<br>• Check that TAP1 is configured as TAP1, and connected to the two module connectors dedicated to TAP1.<br>• Check that TAP2 is configured as TAP2, and connected to the two module connectors dedicated to TAP2<br>• The Heater is broken<br>• Some unexpected operative conditions have caused the TAP to overheat. Try to identify the outline. |
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