



REPORT : Commissioning Burner Line L5

Commissioning Burner Ecoflam Line L5 by GREAT ORIENTAL TRADING CO., LTD

Tuesday April 16, 2021



บริษัท การค้าโอเรียนทัลเทรดดิ้ง จำกัด



สัญญา บัณฑิต
Senior technician

CALL CENTER 061-1789555



REPORT : Commissioning Burner Line L5

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SERVICE REPORT

| | |
|--------------------------|------------------------------------|
| Product : Ecoflam | Dept. : Engineer |
| | Model : MAX GAS 250 PR TL S |
| | MAX GAS 350 PR TL HTS |

Service Report: Commissioning Line 5

Ecoflam Burner Max Gas 250 x 3 units

Ecoflam Burner Max Gas 350 x 4 units

Service Result :

- ตรวจสอบเช็คความถูกต้อง การเข้าสาย Burner
- ทดสอบการทำงาน Burner
- ปรับตั้งพิกัด ไฟ Low ไฟ High และทดสอบการเลี้ยงอุณหภูมิ
- Test Run การทำงานพร้อมกันทั้ง 7 ตัว
- Test Run เข้าระบบเดินไลน์อุณหภูมิลูกค้า
- ผลทดสอบใช้งานปกติ และส่งมอบงาน

Technician : สัญญา บินห์รีม , กิจติศักดิ์ สงกลับ

Service Time : 12 -16 เมษายน 2564

ส่งมอบงาน : 16 เมษายน 2564

With best regards,
Sanya Binhreem
GOT Limited, THAILAND



REPORT : Commissioning Burner Line L5

Brand Ecoflam No.3146155
Model MAX GAS 250 PR TL S
Kw Min 55 Max 240
230 V 50 Hz 600 W

Barcode No. 2000030685
No. 2000030686
No. 2000030697





REPORT : Commissioning Burner Line L5

Ecoflam No.3146155
Model MAX GAS 350 PR TL HTS
Kw Min 100 Max 350
230 V 50 Hz 600 W

Bar code No. 2000033470
No. 2000033471
No. 2000033472
No. 2000033473



ภาพการติดตั้ง Model GAX 250 PR TLS

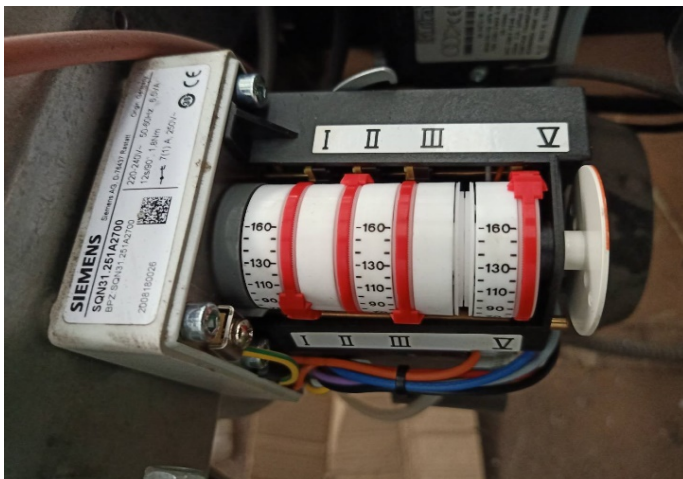


ภาพการติดตั้ง Model GAX 350 PR TL HTS





- สีน้ำเงิน ปิดสุด
- สีส้ม Lower Frame
- สีแดง High Frame
- สีดำ ไม่ใช้



- 1 เปิดสุด High Frame
- 2 ปิดสุด
- 3 ตั้งจุด Low Flame
- 4 ไม่ใช้

ภาพการติดตั้ง



Solenoid Gas Burner 250

NL เป็นการปรับ Gas Low Frame

VL เป็นการปรับ Gas High Frame

Remark หมุนตามเข็มนาฬิกา เป็นการลด Gas

หมุนทวนเข็มนาฬิกา เป็นการเพิ่ม Gas



Solenoid Gas Burner 350 เป็นแบบปรับสอง

ชั้น

- ปรับแบบละเอียด

- ปรับแบบหยาบ

Remark หมุนตามเข็มนาฬิกา เป็นการลด Gas

หมุนทวนเข็มนาฬิกา เป็นการเพิ่ม Gas



การติดตั้ง Regulator Gas ใ้กับ Burner GAS 350



การติดตั้ง Regulator Gas ใ้กับ Burner GAS250



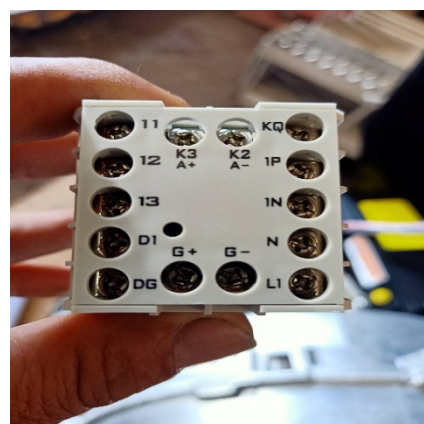
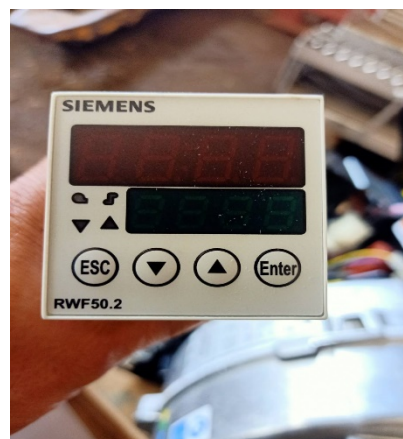
SIEMENS RWF50.20A9CB

AC 110....240 V +10/-15%

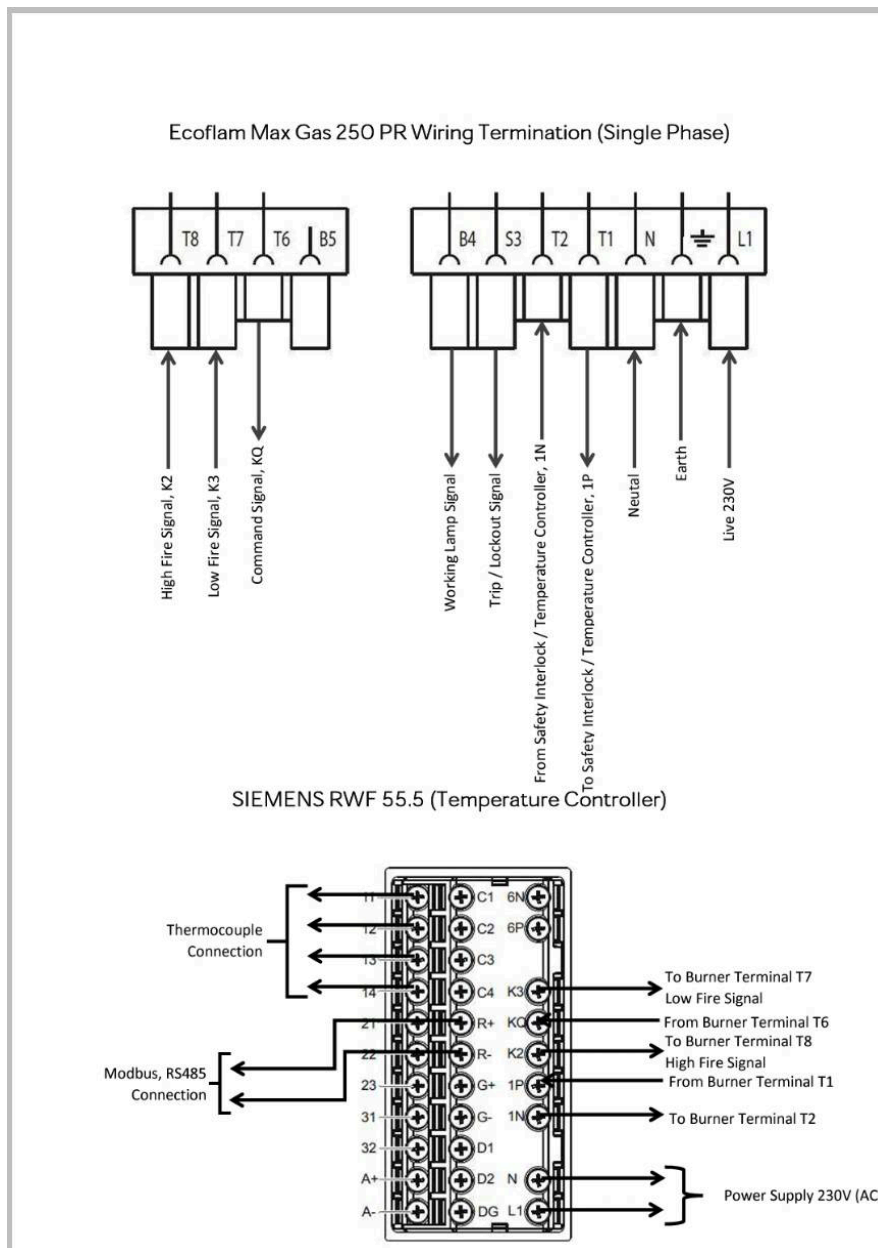
48....63 Hz, 16 VA

Relays 1...3 250 V, 1 A,

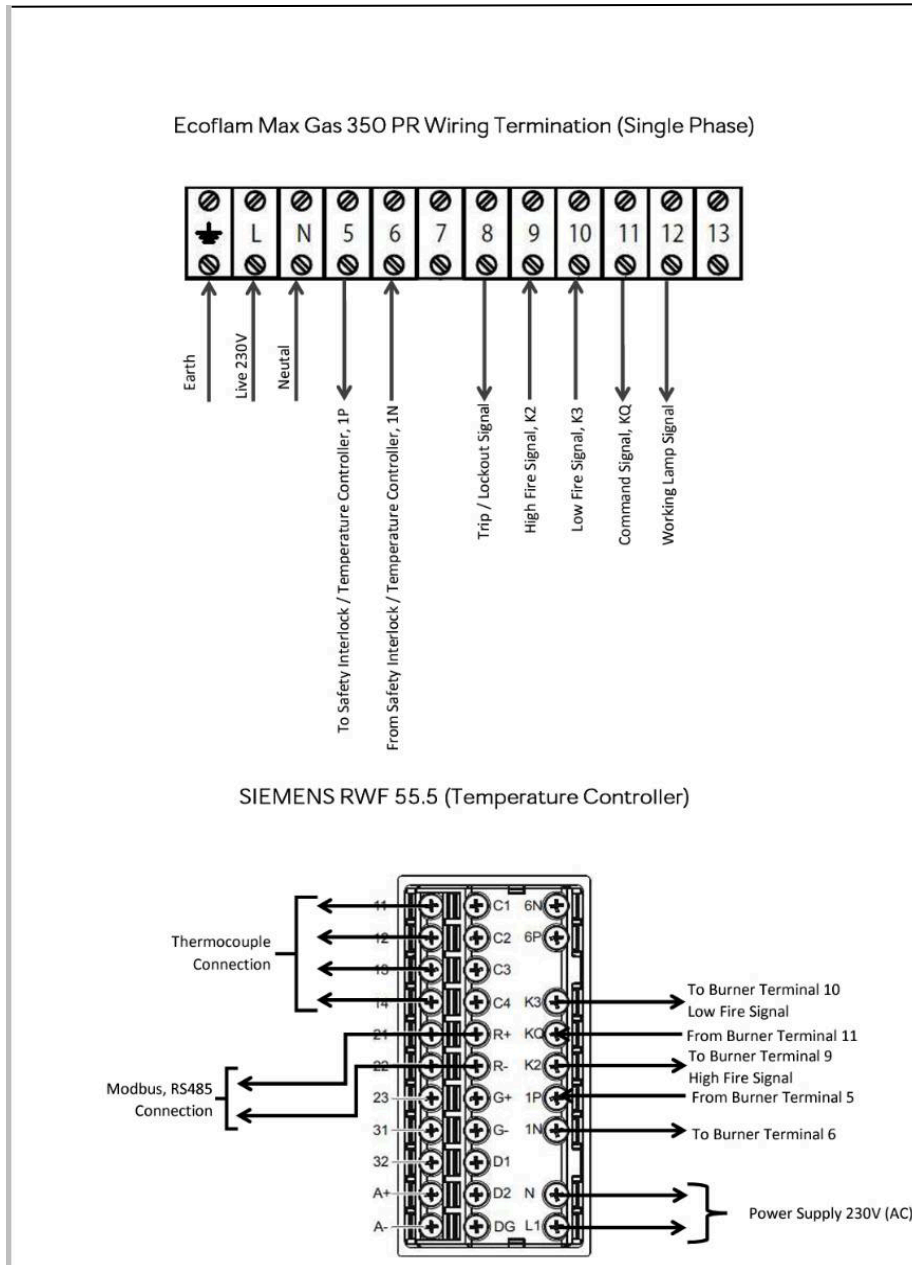
-20 T 50 IP66/IP20



วงจรการเข้าสาย Burner



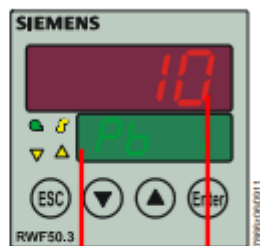
วงจรการเข้าสาย Burner GAS350

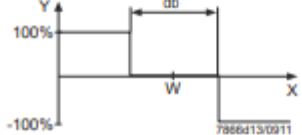


การตั้งค่า SIEMENS RWF50.20A9CB

Display of controller parameters

The parameters are shown on the lower setpoint display (green) and their values on the upper/actual value display (red).



| Parameter | Display | Value range | Factory setting | Remarks |
|---|-------------|-------------------|-----------------|---|
| Proportional band ¹ | Pb1 | 1...9999 digit | 10 | Influences the controller's P-action |
| Derivative time | dt | 0...9999 s | 80 | Influences the controller's D-action With dt = 0, the controller has no D-action |
| Integral action time | rt | 0...9999 s | 350 | Influences the controller's I-action With rt = 0, the controller has no I-action |
| Dead band (neutral zone) ¹ | db | 0.0...999.9 digit | 1 | For 3-position output  |
| Controlling element running time | tt | 10...3000 s | 15 | Running time of the positioning valve for use with modulating controllers |
| Switch-on threshold Heating controller ¹ | HYS1 | -1999...0.0 digit | -5 | ⇒ Reference! See chapter 5.2 <i>High-fire operation</i> |
| Switch-off threshold stage II Heating controller ¹ | HYS2 | 0.0...HYS3 digit | 3 | ⇒ Reference! See chapter 5.2 <i>High-fire operation</i> |
| Switch-off threshold Heating controller ¹ | HYS3 | 0.0...9999 digit | 5 | ⇒ Reference! See chapter 5.2 <i>High-fire operation</i> |
| Switch-on threshold Cooling controller ¹ | HYS4 | 0.0...9999 digit | 5 | ⇒ Reference! See chapter 5.2 <i>High-fire operation</i> |
| Switch-off threshold stage II Cooling controller ¹ | HYS5 | HYS6...0.0 digit | -3 | ⇒ Reference! See chapter 5.2 <i>High-fire operation</i> |
| Switch-off threshold Cooling controller ¹ | HYS6 | -1999...0.0 digit | -5 | ⇒ Reference! See chapter 5.2 <i>High-fire operation</i> |
| Response threshold | q | 0.0...999.9 | 0 | ⇒ Reference! See chapter 5.5 <i>Response threshold (q)</i> |

¹ Setting of decimal place has an impact on this parameter



Note!

When using the RWF50... as a modulating controller only, or as a modulating controller without the burner release function (1P, 1N), parameter HYS1 must be set to 0 and parameters HYS2 and HYS3 must be set to their **maximum** values.


Otherwise, for example, when using default parameter HYS1 (factory setting -5), the 3-position controller is only released when the control deviation reaches -5 K.

การตั้งค่า SIEMENS RWF50.20A9CB

8.1 Analog input InP1

An analog input is available.

Conf → InP → InP1 →

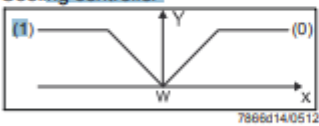


| Parameter | Value/ selection | Description | | | | | | | | | |
|---|---|--|----------------|--------|------------------|-------|------|-------|-------|------|-------|
| Sensor type SEn1 Sensor type | 1 2 3 4 5 6 7 15 16 17 18 19 | Resistance thermometer Pt100, 3-wire Resistance thermometer Pt100, 2-wire Resistance thermometer Pt1000, 3-wire Resistance thermometer Pt1000, 2-wire Resistance thermometer LG-Ni1000, 3-wire Resistance thermometer LG-Ni1000, 2-wire 0...135 Ohm 0...20 mA 4...20 mA DC 0...10 V DC 0...5 V DC 1...5 V | | | | | | | | | |
| Correction of measured value OFF1 Offset | -1999... 0... +9999 | Using the measured value correction (offset), a measured value can be corrected to a certain degree, either up or down Example: <table border="1"> <thead> <tr> <th>Measured value</th> <th>Offset</th> <th>Displayed values</th> </tr> </thead> <tbody> <tr> <td>294.7</td> <td>+0.3</td> <td>295.0</td> </tr> <tr> <td>295.3</td> <td>-0.3</td> <td>295.0</td> </tr> </tbody> </table> | Measured value | Offset | Displayed values | 294.7 | +0.3 | 295.0 | 295.3 | -0.3 | 295.0 |
| Measured value | Offset | Displayed values | | | | | | | | | |
| 294.7 | +0.3 | 295.0 | | | | | | | | | |
| 295.3 | -0.3 | 295.0 | | | | | | | | | |
|  Caution! Measured value correction: To make the calculation, the controller uses the corrected value (displayed value). This value does not represent the value acquired at the point of measurement. If not correctly used, inadmissible values of the control variable can be produced. Measured value corrections must therefore be made within certain limits only. | | | | | | | | | | | |
| Start of display SCL1 Scale low level | -1999... 0... +9999 | In the case of a measuring transducer with standard signal, the physical signal is assigned a display value here Example: 0...20 mA = 0...1500 °C | | | | | | | | | |
| End of display SCH1 Scale high level | -1999... 100... +9999 | The range of the physical signal can be crossed by 20%, either up or down, without getting a signal informing about the crossing | | | | | | | | | |
| Filter time constant dF1 Digital filter | 0.0... 0.6... 100.0... | Is used to adapt the digital 2nd order input filter (time in s; 0 s = filter OFF) If the input signal changes abruptly, about 26% of the change are captured after a time corresponding to the filter time constant dF (2 x dF: approx. 59%; 5 x dF: approx. 96%) When the filter time constant is great: - Great attenuation of interference signals - Slow response of actual value display to changes of the actual value - Low limit frequency (low-pass filter) | | | | | | | | | |
| Temperature unit Unit Temperature unit | 1 2 | Degrees Celsius Degrees Fahrenheit Unit of temperatures | | | | | | | | | |

การตั้งค่า SIEMENS RWF50.20A9CB

8.2 Controller Cntr

Here, the type of controller, operating action, setpoint limits and presets for self-optimization are selected.

ConF → Cntr →

| Parameter | Value/ selection | Description |
|---|---------------------|---|
| Controller type CtYP Controller type | 1 2 | 3-position controller (RWF50.2) Modulating controller (RWF50.3) |
| Operating action CACT Control direction | 1 0 | <p>Heating controller</p> <p>Cooling controller</p>  <p>(0) = cooling controller: The controller's angular positioning (Y) is >0 when the actual value (x) lies above the setpoint (w)</p> <p>(1) = heating controller: The controller's angular positioning (Y) is >0 when the actual value (x) lies below the setpoint (w)</p> |
| Setpoint limitation start SPL Setpoint limitation low | -1999... +9999 | Setpoint limitation prevents values from being entered outside the defined range. |
| Setpoint limitation end SPH Setpoint limitation high | -1999... +9999 | |
| Self-optimization | 0 1 | <p>Free</p> <p>Locked</p> <p>Self-optimization can only be disabled or enabled via the ACS411 setup program</p> <p>If disabled via ACS411 PC software, self-optimization cannot be started via the controller's buttons</p> <p>Setting in the ACS411 setup program → Controller → Self-optimization</p> <p>Self-optimization is also disabled when the parameter level is locked</p> |
| Lower working range limit oLLo Lower operation range limit | -1999... +9999 | <p> Note! If the setpoint with the respective hysteresis exceeds the upper working range limit, the switch-on threshold is substituted by the working range limit.</p> |
| Upper working range limit oLHi Upper working range limit | -1999... +9999 | <p> Note! If the setpoint with the respective hysteresis drops below the lower working range limit, the switch-off threshold is substituted by the working range limit.</p> |



Maintenance

| เดือน | ทำความสะอาด | เปลี่ยน |
|----------|--|--|
| 6 เดือน | <ul style="list-style-type: none">ELETTRODO DI RIVELAZIONE (โพรบ)ELETTRODO DI ACCENSIONE (หัวสปาร์ค)ใบ Blower ของ Burnerอุปกรณ์อื่น | |
| 12 เดือน | | <ul style="list-style-type: none">ELETTRODO DI RIVELAZIONE (โพรบ)ELETTRODO DI ACCENSIONE (หัวสปาร์ค)เปลี่ยนลูกปืนมอเตอร์ Blower ของ BurnerCAVO DI RIVELAZIONE (สายโพรบ)CAVO DI ACCENSIONE (สายหัวสปาร์ค)อุปกรณ์ และอื่นที่ชำรุด |