

---

# REPORT : Commissioning Burner Line L6

Commissioning Burner Ecoflam Line L6 by GREAT ORIENTAL TRADING CO., LTD

Tuesday March 16, 2021



บริษัท การค้าอินทผลัมการค้า จำกัด



สิญญา บันหมรัมย์  
Senior technician



## REPORT : Commissioning Burner Line L6

Page 2

### SERVICE REPORT

<b>Customer Name :</b> บริษัท เอส ซี เอ็ม พี จำกัด	<b>Location :</b> รัตภูมิ
<b>Contact Name :</b> คุณ มานพ	<b>Dept. :</b> Engineer
<b>Product :</b> Ecoflam	<b>Model :</b> MAX GAS 250 PR TL S MAX GAS 350 PR TL HTS

**Service Report :** Commissioning Line 6  
Ecoflam Burner Max Gas 250 x 3 units  
Ecoflam Burner Max Gas 350 x 4 units

**Service Result :** ตรวจเช็คความถูกต้อง การเข้าสาย Burner  
ทดสอบการทำงาน Burner  
ปรับตั้งพิกัด ไฟ Low ไฟ High และทดสอบการเลี้ยงอุณหภูมิ  
Test Run การทำงานพร้อมกันทั้ง 7 ตัว  
Test Run เข้าระบบเดินไลน์ถุงมือลูกค้ำ  
ผลทดสอบใช้งานปกติ และส่งมอบงาน

**Technician :** สัญญา บินหริ่ม , สุเมธ ทับทิมทอง

**Service time :** 9 -16 มีนาคม 2564

**Remark :** ส่งมอบงาน : 16 มีนาคม 2564

With best regards,  
Thakrit Kingkaewpatcharakul  
Service Manager



## REPORT : Commissioning Burner Line L6

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

Barcode No. 2000030688  
No. 2000030689  
No. 2000030690





# REPORT : Commissioning Burner Line L6

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

Bar code No. 2000033466  
No. 2000033467  
No. 2000033468  
No. 2000033469

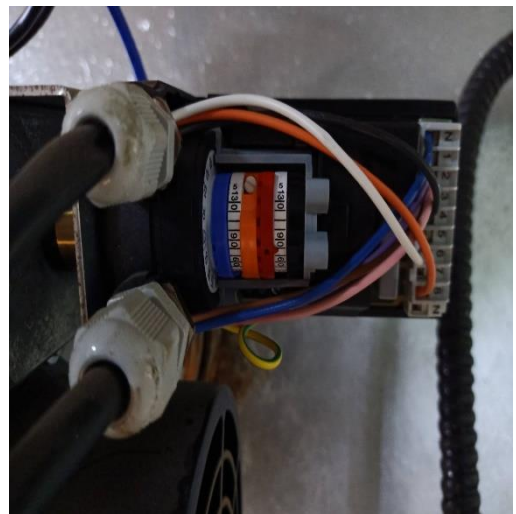




## REPORT : Commissioning Burner Line L6

Page 5

ภาพการติดตั้ง



ภาพการติดตั้ง





- 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 เป็นแบบปรับสองชั้น

- ปรับแบบละเอียด

- ปรับแบบหยาบ

Remark หมุนตามเข็มนาฬิกา เป็นการลด Gas

หมุนทวนเข็มนาฬิกา เป็นการเพิ่ม Gas



การติดตั้ง Regulator Gas ใช้กับ Burner GAS 350



การติดตั้ง Regulator Gas ใช้กับ Burner GAS250



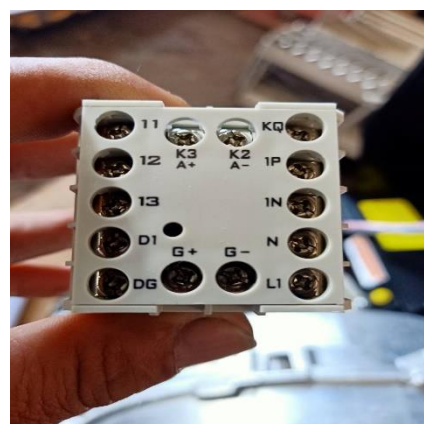
## SIEMENS RWF50.20A9CB

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

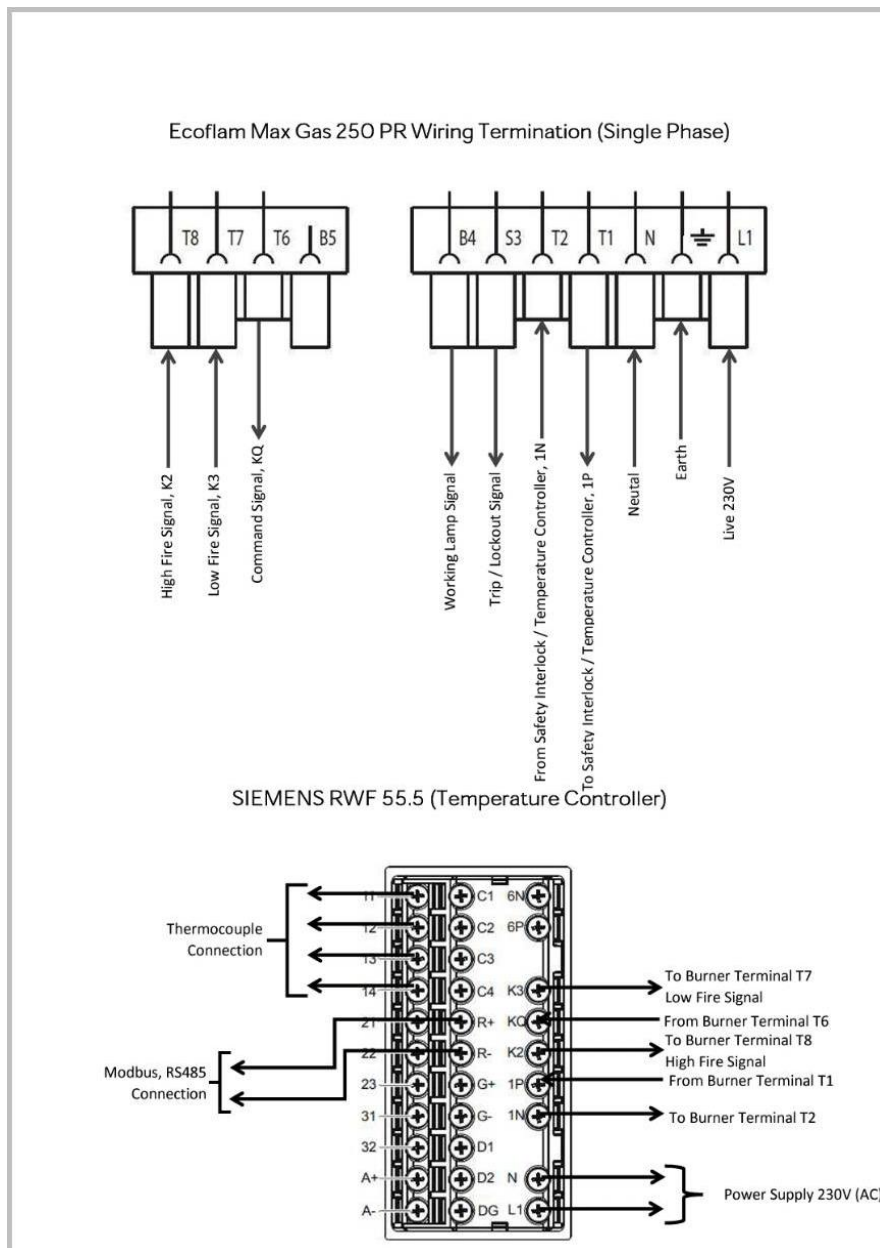
48....63 Hz, 16 VA

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

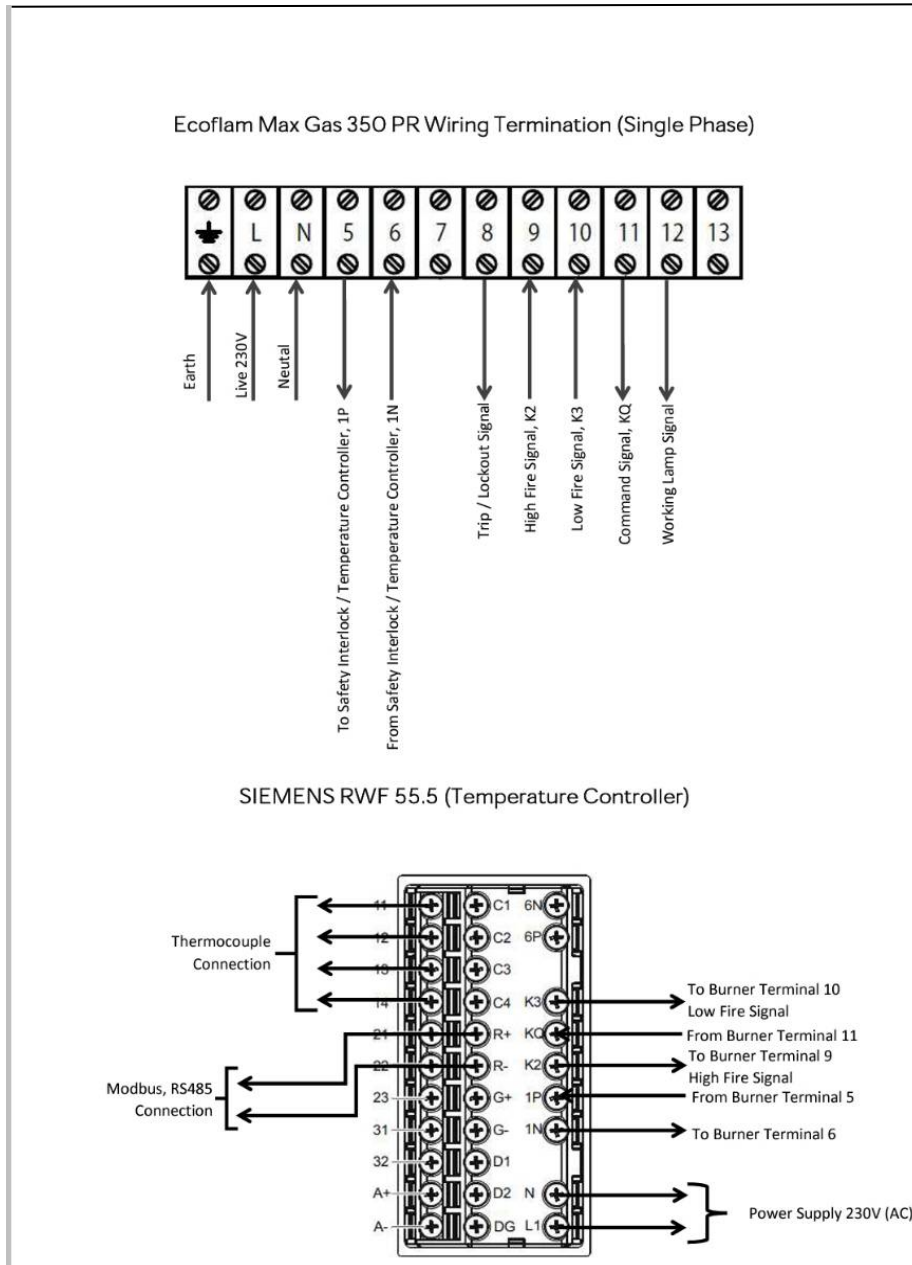
-20 T 50 IP66/IP20



## วงจรการเข้าสาย Burner



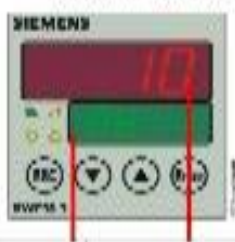
## วงจรการเข้าสาย Burner GAS350

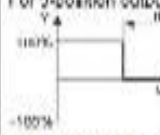


## การตั้งค่า SIEMENS RWF50.20A9CB

Display of reminder parameters

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



Parameter	Display	Value range	Factory setting	Comments
Proportional band <sup>1</sup>	PD1	1...9999 digit	10	Influences the controller's P-action
Derivative time	DI	0...9999 s	60	Influences the controller's D-action With DI = 0, the controller has no D-action
Integral action time	IL	0...9999 s	360	Influences the controller's I-action With IL = 0, the controller has no I-action
Dead band (neutral zone) <sup>1</sup>	DB	0.0...999.9 digit	1	I or 2-position output 
Controlling element limiting time	LI	10...9999 s	15	Running time of the positioning valve for use with modulating controllers
Switch-on threshold Heating controller <sup>1</sup>	HYX1	1000...9.9 digit	8	↔ Reference! See chapter 5.2 Heating operation
Switch-off threshold Heating controller <sup>1</sup>	HYX2	0.0...99.9 digit	0	↔ Reference! See chapter 5.2 High fire operation
Switch-on threshold Cooling controller <sup>1</sup>	HYX4	0.0...99.9 digit	0	↔ Reference! See chapter 5.2 High fire operation
Switch-off threshold Cooling controller <sup>1</sup>	HYX5	HYX6...9.9 digit	3	↔ Reference! See chapter 5.2 High fire operation
Switch-off threshold Cooling controller <sup>1</sup>	HYX6	1000...9.9 digit	8	↔ Reference! See chapter 5.2 Heating operation
Response threshold	q	0.0...999.9	0	↔ Reference! See chapter 5.2 Response threshold (q)

<sup>1</sup> Setting of decimal place has an impact on the parameter

1.2

**Note!**

When using the RWF50... as a modulating controller only, or as a modulating controller without the burner release function (1<sup>1</sup>, 1N), parameter HYX1 MUST be set to 0 and parameters HYX2 and HYX3 must be set to their maximum values.


Otherwise, for example, when using default parameter HYX1 (factory setting: 8), the A position controller is only released when the control deviation reaches 8 K.

## การตั้งค่า SIEMENS RWF50.20A9CB

### 8.1 Analog input InP1

An analog input is available.

Conf → InP → InP1 →

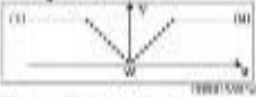


Parameter	Value/ selection	Description									
Sensor type SEn1 Sensor type	1 2 3 4 5 6 7 15 16 17 18 19	Resistance thermometer Pt100, 3-wire Resistance thermometer Pt100, 2-wire Resistance thermometer Pt1000, 3-wire Resistance thermometer Pt1000, 2-wire Resistance thermometer LG-Ni1000, 3-wire Resistance 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  <b>Example:</b>  <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									
 <b>Caution!</b> <b>Measured value correction:</b> 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	<b>Degrees Celsius</b> <b>Degrees Fahrenheit</b>  Unit of temperatures									

## การตั้งค่า SIEMENS RWF50.20A9CB

### 0.2 Controller Ctrl

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

000 → Ctrl →

Parameter	Value/ selection	Description
<b>Controller type</b> Ctrl type Controller type	1 2	1: Position controller (RWF50.2) 2: Modulating controller (RWF50.3)
<b>Operating action</b> Ctrl action Control direction	1 0	<b>Heating controller</b> <b>Cooling controller</b>  <p>(0) = cooling controller            The controller's angular overdriving (Y) is +0 when the actual value (x) lies above the setpoint (w).</p> <p>(1) = heating controller            The controller's angular overdriving (Y) is -0 when the actual value (x) lies below the setpoint (w).</p>
<b>Setpoint limitation: user</b> GPL Setpoint limitation low <b>Setpoint limitation: real</b> GPL Setpoint limitation high <b>Self-optimization</b>	-10000 +0000 -1000 +0000 0 1	Setpoint limitation prevents values from being entered outside the defined range. Free Locked Self-optimization can only be disabled or enabled via the AC2411 setup program. If disabled via AC2411 PC software, self-optimization cannot be started via the controller's buttons. Setting in the AC2411 setup program: Ctrl Controller → Self-optimization Self-optimization is also disabled when the parameter level is limited.
<b>Lower working range limit</b> min <b>Lower operation range limit</b>	-1000... +0000	 <b>None!</b> If the setpoint with the respective hysteresis exceeds the upper working range limit, the switch-on threshold is substituted by the working range limit.
<b>Upper working range limit</b> max <b>Upper operation range limit</b>	-1000... +0000	 <b>None!</b> 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.

41/85

Building Technologies Division      User Manual RWF50      02/17/2016