600-R-D-0-0-x Programmable PID Controller



Heat & Alarm

GETTING STARTED

- Unpack Contents
- Verify model number and application
- Power Controller
- Program for yourapplication

Note

Change all menu parameters by using the front panel buttons





1 What's Included



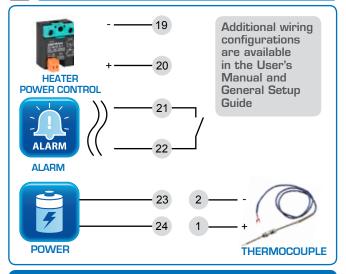


- 48x48 DIN 600-R-D-0-0-x
 Gefran Controller
- Mounting Bracket
- Panel Sealing Gasket
- Screw Terminal Cover
- Multi-Language Manual

2 Program Your Gefran Controller

- Press and hold (a) until PRS appears ENTER 99
- Press once, Pro appears ENTER 128
- Press F once, PRS appears ENTER 99
- Press and hold (F) until Hrd appears
- Press F repeatedly until but appears ENTER !
- Press and hold **()** until lnP appears
- Press twice, £4P appears ENTER the Input Sensor number from the list.
- Press F repeatedly until La.5* appears ENTER the minimum Input Scale limit
- Press once, H : 5* appears ENTER the maximum Input Scale limit
- Press F repeatedly until La.L* appears ENTER the minimum Alarm Scale limit
- Press once, H.L* appears ENTER the maximum Alarm Scale limit
- Press and hold until you return to the main process display. This is the display after PRS and will be indicated by the Process Variable if an input sensor is connected, or La, Hz, Sbr, Err if no input is connected.
- Use the △ and ▽ buttons to adjust the control setpoint (SV) from the main display.
- Press 🕒 once from the main display, RL. lappears to adjust the Alarm 1 setpoint.
- Press the button to switch between automatic and manual control modes from the main display. LED 1[11] will light while in manual mode.

3 Connect Your Controller



If needed, automatic tuning (Self-Tune) can be enabled with the following steps

With the machine at ambient temperature and the control setpoint (SV) set...

- Press and hold 🕞 until [F6 appears
- Press (a) once, 5. Tu appears ENTER 2
- Press 🕞 once
- Cycle power to the controller
- LED 3 [L3] will flash during the tuning process

Self-Tune will automatically save new PID values once complete

This Quick Start Guide provides basic information on setting up the Gefran 600 controller for the application referenced above. Additional software and hardware configuration information can be found in the User's Manual included with this controller or online at www.gefran.com

* Parameter may be left at default value for input types 0...37



Input Sensor

1 TCJ°F

2 TCK°C

4 TCR°C

5 TCR°F

6 TCS°C

8 TCT°C

30 PT100 °C

31 PT100 °F

34 PTC °C

35 PTC °F

36 NTC °C

37 NTC °F

44 4...20 mA

46 O...10 V

32 JPT100 °C

600-R-D-0-0-x Programmable PID Controller



Heat - Cool

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What's Included



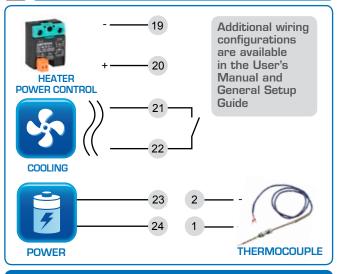


- 48x48 DIN 600-R-D-0-0-x
 Gefran Controller
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2 Program Your Gefran Controller

- Press and hold (a) until PRS appears ENTER 99
- Press (once, Pro appears ENTER 128
- Press once, PR5 appears ENTER 99
- Press and hold (F) until Hrd appears
- Press (twice, [Lr appears ENTER 14
- Press Ponce, PLn appears ENTER D
- Press and hold (F) until [F] appears
- Press and hold (F) until [Me] appears
 - ENTER \mathcal{G} cooling with Air
 - ENTER / cooling with Oil
 - ENTER $\mathcal G$ cooling with Water
- Press and hold (until InPappears
- Press \bigcirc twice, $\& \mathcal{YP}$ appears ENTER the Input Sensor number
- Press F repeatedly until Lo.5* appears ENTER the minimum Input Scale limit
- Press once, H:.5* appears ENTER the maximum Input Scale limit
- Press F repeatedly until Lo.L* appears ENTER the minimum Alarm Scale limit
- Press 🕞 once, H : L* appears ENTER the maximum Alarm Scale limit
- Press and hold 🕞 until 🗓 🕹 appears
- Press 🕞 once, rt. lappears ENTER l
- Press and hold (a) until you return to the main process display. This is the display after PRS and will be indicated by the Process Variable if an input sensor is connected, or La, Ha, Sbr, Err if no input is connected.
- Use the △ and ♥ buttons to adjust the control setpoint (SV) from the main display.
- Press the ① button to switch between automatic and manual control modes from the main display. LED 1[11] will light while in manual mode.
- * Parameter may be left at default value for input types 0...37

3 Connect Your Controller



If needed, automatic tuning (Self-Tune) can be enabled with the following steps

With the machine at ambient temperature and the control setpoint (SV) set...

- Press and hold 🕞 until [F6 appears
- Press once, 5. Tu appears ENTER 2
- Press 🕞 once
- Cycle power to the controller
- LED 3 (L3) will flash during the tuning process

Self-Tune will automatically save new PID values once complete

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Input Sensor

30 PT100 °C

31 PT100 °F

32 JPT100 °C

33 JPT100 °F

34 PTC °C

35 PTC °F

36 NTC °C

37 NTC °F

44 4...20 mA

46 O...10 V

O TCJ°C

1 TCJ°F

2 TCK°C

3 TCK°F

4 TCR°C

5 TCR°F

6 TCS°C 7 TCS°F

8 TCT°C

9 TCT°F

600-R-R-R-O-x Programmable PID Controller



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1 What's Included



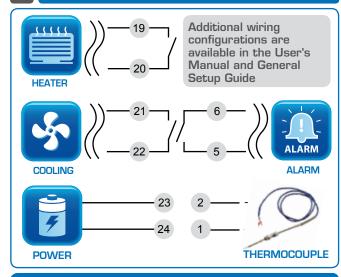


- 48x48 DIN 600-R-R-R-0-x
 Gefran Controller
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- Panel Sealing Gasket
- Screw Terminal Cover
- Multi-Language Manual

2 Program Your Gefran Controller

- Press and hold (a) until PRS appears ENTER 99
- Press Ponce, Proappears ENTER 128
- Press 🕞 once, PRS appears ENTER 99
- Press and hold **(F)** until *Hrd* appears
- Press **F** twice, *[Lr* appears ENTER *[4]*
- Press (twice, but appears ENTER !
- Press and hold (until [F5] appears
- Press and hold (F) until [1] appears
 - ENTER \mathcal{G} cooling with Air
 - ENTER / cooling with Oil
 - ENTER $ar{U}$ cooling with Water
- Press and hold **(F)** until *I nP* appears
- Press **(F)** twice, *LYP* appears ENTER the Input Sensor number from the list
- Press F repeatedly until La.5* appears ENTER the minimum Input Scale limit
- Press once, H : 5* appears ENTER the maximum Input Scale limit
- Press f G repeatedly until $Lo.L^*$ appears ENTER the minimum Alarm Scale limit
- Press \bigcirc once, $\mathcal{H} \cup \mathcal{L}^*$ appears ENTER the maximum Alarm Scale limit
- Press and hold 🕞 until 🗓 Ł appears
- Press **(F)** three times, rt. I appears ENTER I
- Press lacksquare twice, $\ell l. \mathcal{J}$ appears ENTER \mathcal{L}
- Press and hold (a) until you return to the main process display. This is the display after PR5
 and will be indicated by the Process Variable if an input sensor is connected, or La, Hz, 5br,
 Err if no input is connected.
- Use the \triangle and ∇ buttons to adjust the control setpoint (SV) from the main display.
- Press lacksquare once from the main display, \mathcal{R} L. lappears to adjust the Alarm 1 setpoint.
- Press the **()** button to switch between automatic and manual control modes from the main display. LED 1(L1) will light while in manual mode.
- * Parameter may be left at default value for input types 0...37

3 Connect Your Controller



If needed, automatic tuning (Self-Tune) can be enabled with the following steps

With the machine at ambient temperature and the control setpoint (SV) set...

- Press and hold (until [F6 appears
- Press **⑤** once, 5. Tu appears ENTER ₽
- Press 🕞 once
- Cycle power to the controller
- LED 3 (L3) will flash during the tuning process

Self-Tune will automatically save new PID values once complete

This Quick Start Guide provides basic information on setting up the Gefran 600 controller for the application referenced above. Additional software and hardware configuration information can be found in the User's Manual included with this controller or online at www.gefran.com



Input Sensor

1 TCJ°F

2 TCK°C

3 TCK°F

4 TCR°C

5 TCR°F

6 TCS°C

7 TCS°F

8 TCT °C 9 TCT °F Sensor Type

30 PT100 °C

31 PT100 °F

32 JPT100 °C

33 JPT100 °F

34 PTC °C

35 PTC °F

36 NTC °C

37 NTC °F 44 4...20 mA

46 O...10 V

600-R-R-O-O-x Programmable PID Controller



Heat - Cool

GETTING STARTED

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1 What's Included





- 48x48 DIN 600-R-R-0-0-x
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2 Program Your Gefran Controller

- Press and hold (a) until PRS appears ENTER 99
- Press (F) once, Pro appears ENTER 128
- Press once, PR5 appears ENTER 99
- Press and hold (a) until Hrd appears
- Press (twice, [Lr appears ENTER 14
- Press once, AL. nappears ENTER []
- Press and hold (F) until [F] appears
- Press and hold (F) until [Me] appears
 - ENTER \mathcal{G} cooling with Air
 - ENTER / cooling with Oil
 - ENTER $\mathcal G$ cooling with Water
- Press and hold (until InPappears
- Press twice, £4P appears ENTER the Input Sensor number
- Press F repeatedly until La.5* appears ENTER the minimum Input Scale limit
- Press once, H:.5* appears ENTER the maximum Input Scale limit
- Press F repeatedly until La.L* appears ENTER the minimum Alarm Scale limit
- Press 🕞 once, H : L* appears ENTER the maximum Alarm Scale limit
- Press and hold 🕞 until 🗓 🕹 appears
- Press 🕞 once, rt. lappears ENTER l
- Press and hold (a) until you return to the main process display. This is the display after PR5
 and will be indicated by the Process Variable if an input sensor is connected, or La, Hi, 5br,
 Err if no input is connected.
- Use the △ and ♥ buttons to adjust the control setpoint (SV) from the main display.
- Press the button to switch between automatic and manual control modes from the main display. LED 1[11] will light while in manual mode.
- * Parameter may be left at default value for input types 0...37

3 Connect Your Controller

Input Sensor

Sensor Type

30 PT100 °C

31 PT100 °F

32 JPT100 °C

33 JPT100 °F

34 PTC °C

35 PTC °F

36 NTC °C

37 NTC °F

44 4...20 mA

46 O...10 V

Sensor Type

O TCJ°C

1 TCJ°F

2 TCK°C

3 TCK°F

4 TCR°C

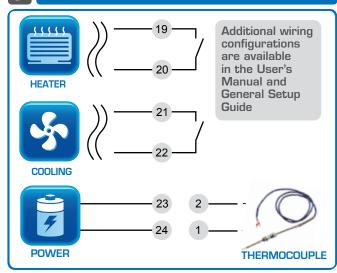
5 TCR°F

6 TCS°C

7 TCS°F

8 TCT°C

9 TCT°F



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- Press and hold 🕞 until [F6 appears
- Press **⑤** once, 5. Tu appears ENTER ₽
- Press 🕞 once
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600-R-R-O-O-x Programmable PID Controller



DANGER Heat & Alarm

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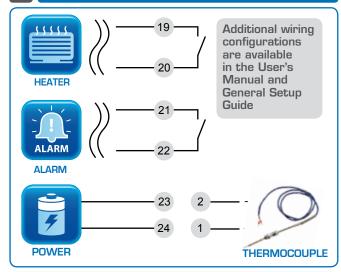


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- Press and hold **(a)** until PRS appears ENTER 99
- Press Ponce, Pro appears ENTER 128
- Press 6 once, PR5 appears ENTER 99
- Press and hold (a) until Hrd appears
- Press Prepeatedly until but appears ENTER
- Press and hold f F until \ln^p appears
- Press twice, £4P appears ENTER the Input Sensor number from the list.
- Press F repeatedly until La.5* appears ENTER the minimum Input Scale limit
- Press once, H 1.5* appears ENTER the maximum Input Scale limit
- Press F repeatedly until Lo.L* appears ENTER the minimum Alarm Scale limit
- Press 🗗 once, # :.L* appears ENTER the maximum Alarm Scale limit
- Press and hold (a) until you return to the main process display. This is the display after PRS
 and will be indicated by the Process Variable if an input sensor is connected, or Lo, Ho, Sbr,
 Err if no input is connected.
- Use the △ and ▽ buttons to adjust the control setpoint (SV) from the main display.
- Press 🕞 once from the main display, RL. Jappears to adjust the Alarm 1 setpoint.
- Press the button to switch between automatic and manual control modes from the main display. LED 1[11] will light while in manual mode.

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- Press (a) once, 5. Tu appears ENTER 2
- Press 🕞 once
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 * Parameter may be left at default value for input types 0...37





Input Sensor

TC J °C

4 TCR°C

5 TCR°F

6 TCS°C

PT100 °C

JPT100 °C

PTC °C

PTC °F

NTC °C

44 4...20 mA

31 PT100 °E

600-R-D-R-O-x Programmable PID Controller







Heat - Cool - Alarm

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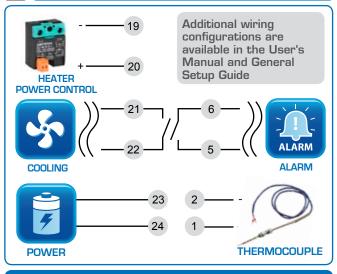


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- Press 🕞 once, PRS appears ENTER 99
- Press and hold (a) until Hrd appears
- Press (twice, Ltr appears ENTER 14
- Press (a) twice, but appears ENTER !
- Press and hold (until [F5] appears
- Press and hold (F) until [1] appears
 - ENTER G cooling with Air
 - ENTER / cooling with Oil
 - ENTER \mathcal{G} cooling with Water
- Press and hold (until InPappears
- Press \bigcirc twice, $\mathcal{L}^{\mathcal{GP}}$ appears ENTER the Input Sensor number from the list
- Press F repeatedly until Lo.5* appears ENTER the minimum Input Scale limit
- Press once, H : 5* appears ENTER the maximum Input Scale limit
- Press Prepeatedly until La.L* appears ENTER the minimum Alarm Scale limit
- Press once, H.L* appears ENTER the maximum Alarm Scale limit
- Press and hold (a) until (b) appears
- Press **(a)** three times, rt. I appears ENTER I
- Press and hold (a) until you return to the main process display. This is the display after PR5 and will be indicated by the Process Variable if an input sensor is connected, or La, H., Sbr, Err if no input is connected.
- Use the △ and ▼ buttons to adjust the control setpoint (SV) from the main display.
- Press \bigcirc once from the main display, βL . Jappears to adjust the Alarm 1 setpoint.
- Press the O button to switch between automatic and manual control modes from the main display. LED 1[L1] will light while in manual mode.
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- Press once, 5. Tu appears ENTER 2
- Press 📵 once
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4 TCR°C

5 TCR°F

6 TCS°C

7 TCS°F

8 TCT°C

9 TCT°F

30 PT100 °C

31 PT100 °F

32 JPT100 °C

33 JPT100 °F

34 PTC °C

35 PTC °F

36 NTC °C

37 NTC °F

44 4...20 mA

46 O...10 V