OnCue® Plus
Generator Management System
for Kohler® Residential/Light Commercial Generator Sets
equipped with the following controllers:

RDC/DC
RDC2/DC2
VSC

Residential/Commercial Generator Sets

User Guide

KOHLER® Power Systems

ISO 9001
NATIONALLY REGISTERED

TP-7006 4/16
Safety Precautions and Instructions

IMPORTANT SAFETY INSTRUCTIONS.
Electromechanical equipment, including generator sets and accessories, can cause bodily harm and pose life-threatening danger when improperly installed, operated, or maintained. To prevent accidents be aware of potential dangers and act safely. Read and follow all safety precautions and instructions. SAVE THESE INSTRUCTIONS.

This manual has several types of safety precautions and instructions: Danger, Warning, Caution, and Notice.

⚠️ DANGER

Danger indicates the presence of a hazard that **will cause severe personal injury, death, or substantial property damage.**

⚠️ WARNING

Warning indicates the presence of a hazard that **can cause severe personal injury, death, or substantial property damage.**

⚠️ CAUTION

Caution indicates the presence of a hazard that **will or can cause minor personal injury or property damage.**

⚠️ NOTICE

Notice communicates installation, operation, or maintenance information that is safety related but not hazard related.

Safety decals affixed to the equipment in prominent places alert the operator or service technician to potential hazards and explain how to act safely. The decals are shown throughout this publication to improve operator recognition. Replace missing or damaged decals.

### Accidental Starting

⚠️ WARNING

Accidental starting. Can cause severe injury or death.

Disconnect the battery cables before working on the generator set. Remove the negative (−) lead first when disconnecting the battery. Reconnect the negative (−) lead last when reconnecting the battery.

#### Disabling the generator set

Accidental starting can cause severe injury or death. Before working on the generator set or equipment connected to the set, disable the generator set as follows:
1. Press the generator set off/reset button to shut down the generator set.
2. Disconnect the power to the battery charger, if equipped.
3. Remove the battery cables, negative (−) lead first. Reconnect the negative (−) lead last when reconnecting the battery. Follow these precautions to prevent the starting of the generator set by the remote start/stop switch.

### Hazardous Voltage/Moving Parts

⚠️ DANGER

Hazardous voltage. Will cause severe injury or death.

Disconnect all power sources before opening the enclosure.

⚠️ WARNING

Short circuits. Hazardous voltage/current can cause severe injury or death. Short circuits can cause bodily injury and/or equipment damage. Do not contact electrical connections with tools or jewelry while making adjustments or repairs. Remove all jewelry before servicing the equipment.

NOTICE

Electrostatic discharge damage. Electrostatic discharge (ESD) damages electronic circuit boards. Prevent electrostatic discharge damage by wearing an approved grounding wrist strap when handling electronic circuit boards or integrated circuits. An approved grounding wrist strap provides a high resistance (about 1 megohm), *not a direct short*, to ground.
This manual provides operation instructions for the OnCue® Plus Generator Management System. OnCue Plus is a web application that does not require the installation of software on your computer. OnCue Plus allows remote monitoring and control of your generator set using a computer, tablet, or smart phone from any location that provides web access.

OnCue Plus applies to Kohler® Residential and Light Commercial generator sets equipped with the following controllers:

- RDC/DC
- RDC2/DC2
- VSC

Note: The RDC2, DC2, and VSC controllers require an activation code, which is supplied with the OnCue Plus kit.

Note: The RDC and DC controllers must be equipped with the Ethernet option board kit GM62465-KP1. Contact your Kohler authorized distributor or dealer for more information.

Information in this publication represents data available at the time of print. Kohler Co. reserves the right to change this publication and the products represented without notice and without any obligation or liability whatsoever.

Read this manual and carefully follow all procedures and safety precautions to ensure proper equipment operation and to avoid bodily injury. Read and follow the Safety Precautions and Instructions section at the beginning of this manual. Keep this manual with the equipment for future reference.

List of Related Literature

Figure 1 lists related literature.

<table>
<thead>
<tr>
<th>Literature Type</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OnCue Plus Specification Sheet</td>
<td>G6-140</td>
</tr>
<tr>
<td>OnCue Plus Technical manual</td>
<td>TP-7007</td>
</tr>
<tr>
<td>USB Utility Instructions</td>
<td>TT-1636</td>
</tr>
</tbody>
</table>

Figure 1  Related Literature
Service Assistance

For professional advice on generator set power requirements and conscientious service, please contact your nearest Kohler distributor or dealer.

- Consult the Yellow Pages under the heading Generators—Electric.
- Visit the Kohler Power Systems website at KOHLERPower.com.
- Look at the labels and decals on your Kohler product or review the appropriate literature or documents included with the product.
- Call toll free in the US and Canada 1-800-544-2444.
- Outside the US and Canada, call the nearest regional office.

Headquarters Europe, Middle East, Africa (EMEA)
Kohler Power Systems Netherlands B.V.
Kristallaan 1
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The Netherlands
Phone: (31) 168 331630
Fax: (31) 168 331631

Asia Pacific
Power Systems Asia Pacific Regional Office
Singapore, Republic of Singapore
Phone: (65) 6264-6422
Fax: (65) 6264-6455

China
North China Regional Office, Beijing
Phone: (86) 10 6518 7950
(86) 10 6518 7951
(86) 10 6518 7952
Fax: (86) 10 6518 7955

East China Regional Office, Shanghai
Phone: (86) 21 6288 0500
Fax: (86) 21 6288 0550

India, Bangladesh, Sri Lanka
India Regional Office
Bangalore, India
Phone: (91) 80 3366208
(91) 80 3366231
Fax: (91) 80 3315972

Japan, Korea
North Asia Regional Office
Tokyo, Japan
Phone: (813) 3440-4515
Fax: (813) 3440-2727

Latin America
Latin America Regional Office
Lakeland, Florida, USA
Phone: (863) 619-7568
Fax: (863) 701-7131
Section 1 OnCue Plus Navigation

1.1 Introduction

Kohler® OnCue® Plus monitors the generator set and generates messages continually. After the application has been configured to send email and/or text messages, the OnCue Plus server will continue to send messages when the PC is turned off or disconnected from the Internet.

Note: Sample screens are shown in this document. The actual screens may vary.

OnCue Plus is available as a web version and as an app for Apple® and Android™ devices. For smart phones or tablets, obtain the Kohler OnCue Plus app from the App StoreSM (for Apple devices) or Google Play™ (for Android™ devices). App screens are similar to the web screens shown in this manual.

1.2 Start OnCue Plus

On your PC or Laptop

To use the OnCue Plus web application, use your computer to navigate to the OnCue Plus website www.kohlergenerators.com/oncue. The OnCue Plus log-in window opens. When you start OnCue Plus for the first time, click on Create Account. See Figure 1-1. Instructions in the following sections explain how to set up an account and add your generator to OnCue Plus.

On your Smart Phone or Tablet

For smart phones or tablets, obtain the Kohler OnCue Plus app from the App StoreSM (for Apple devices) or Google Play™ (for Android devices). Follow the Quick Start instructions in the app to set up an account and add your generator to OnCue Plus. Operation of the app is similar to using the web application as described in this manual.

OnCue Plus will remember your generator set and connect to it each time you use OnCue Plus.

1.3 DEMO Button

To preview the OnCue Plus screens and operation without creating an account or logging in, click on the DEMO button. See Figure 1-1. The demo allows you to navigate through all menus and review the information available through OnCue Plus without connecting to an actual generator set. You can “start” and “stop” the demo generator set from the controls menu, view the generator parameters, and rename inputs and outputs.

1.4 Send Feedback Button

Click on the send feedback button in the sign-in screen or click on the feedback command in the upper right corner of other screens to send your comments to Kohler Co. The screen shown in Figure 1-2 will open.

Touch or click on the relevant feedback topic and follow the instructions on the screen.

Apple, the Apple logo, iPhone and iPad are registered trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.
Android and Google Play are trademarks of Google Inc.
1. If you have an account, enter your username and password and click LOG IN.
2. New users click Create Account.
3. To send feedback to Kohler Co., click Send Feedback here or click Feedback near the upper right corner of most other OnCue Plus screens.
4. To view OnCue Plus screens and features without creating an account or logging in, click DEMO.

**Figure 1-1** OnCue Plus Sign In Screen

**Figure 1-2** Feedback Window
1.5 Select Generator

Multiple generators can be added to your OnCue Plus account. Customers who have more than one generator set can monitor them on one account, and Kohler distributors and dealers can monitor generators for multiple customers. Customers control the dealer’s or distributor’s access by providing the generator password. See Section 1.13.7.

In the status view, click on the arrow on the left side of the screen to reveal the list of generators that have been added to your account. All generator sets that you have added to your account will appear in a list on the left side of the screen. Scroll down if necessary and click on the generator that you want to monitor. The selected generator set is displayed at the top of the list and also displayed in the Status view.

If you have multiple generator sets in your account, keep the list open to identify the selected generator set.

1.6 OnCue Plus Views

OnCue Plus opens in the Status view. The following views are available:

- Status
- Event History
- Controls
- Parameters
- Dealer
- Exercise
- Settings

To select a view, click on the desired view in the toolbar near the top of the screen. The selected view is highlighted in the toolbar. See Figure 1-4.

Figure 1-3 Select Generator
1.7 Status

The status screen is shown in Figure 1-4.

Symbols in the generator list on the left side of the screen indicate the status of each generator set. See Figure 1-5. The symbol to the left of the generator name indicates whether the generator is running, on standby, shut down, or turned off. See Figure 1-6 for illustrations and definitions of the symbols. The symbol to the right of the generator name shows whether the generator is connected to the OnCue Plus server. If the symbol indicates no connection.

See Figure 1-7 for an explanation of symbols and information displayed in the body of the status screen.

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**Figure 1-4  Power System Status**

1. Click on the desired view in this toolbar. The selected view is highlighted.
2. Generator name
3. Generator status
4. Last update
5. Active alerts
6. GEN symbol
7. Power connection
8. Power line symbol (utility)
9. Home status
10. Generator set voltage
11. Generator set frequency
12. Generator set engine starting battery voltage

**Note:** See Figure 1-5 through Figure 1-7 for more information about the symbols on this screen.
1. Generator set status; see Figure 1-6.
2. Connection status; see Figure 1-6.

**Figure 1-5** Generator Set Status and Connection Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Blue square" /></td>
<td>Standby</td>
<td>Generator set is ready to start.</td>
</tr>
<tr>
<td><img src="image" alt="Green triangle" /></td>
<td>Cranking or running</td>
<td>Engine is starting or running.</td>
</tr>
<tr>
<td><img src="image" alt="Red X" /></td>
<td>Fault shutdown</td>
<td>The controller has detected a fault condition and the generator set has shut down.</td>
</tr>
<tr>
<td><img src="image" alt="Red circle" /></td>
<td>Off</td>
<td>Controller is OFF.</td>
</tr>
<tr>
<td><img src="image" alt="Connection symbol" /></td>
<td>Connected</td>
<td>Generator set is connected to the OnCue Plus server.</td>
</tr>
<tr>
<td><img src="image" alt="Open symbol" /></td>
<td>Not Connected</td>
<td>Generator set is not connected to the OnCue Plus server.</td>
</tr>
</tbody>
</table>

**Figure 1-6** Generator Set Status Indicators

<table>
<thead>
<tr>
<th>Status Screen Item *</th>
<th>Indicates</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name (2)</td>
<td>Name of generator that you are monitoring</td>
<td>Select the generator from the list on the left side of the screen. (Click on the arrow symbol to reveal the list.)</td>
</tr>
<tr>
<td>Generator status message (3)</td>
<td>The status of the generator that you have selected</td>
<td>Examples of status messages are “Generator Running” and “Standby.” If a fault condition is indicated, check the Event History view or the controller display to identify the fault.</td>
</tr>
<tr>
<td>Updated (4)</td>
<td>The last time that generator information was updated in OnCue Plus</td>
<td>The frequency of updates can be changed through the Settings screen.</td>
</tr>
<tr>
<td>Active alerts (5)</td>
<td>Generator set alerts</td>
<td>Indicates any active generator set faults or warnings. See Section 1.8.</td>
</tr>
<tr>
<td>GEN symbol (6)</td>
<td>Generator Status</td>
<td>Green when active, gray when not available.</td>
</tr>
<tr>
<td>Power connection (7)</td>
<td>Power source connected to the home.</td>
<td>A green line indicates which power source, generator or utility, is connected to the home.</td>
</tr>
<tr>
<td>Power line symbol (8)</td>
<td>Utility power status</td>
<td>Green when active, gray when not available.</td>
</tr>
<tr>
<td>Home symbol and home status message (9)</td>
<td>Home does or does not have power</td>
<td>Symbol is green when the home has power from either the generator or utility.</td>
</tr>
<tr>
<td>Genset Voltage (10)</td>
<td>Output voltage from the generator set.</td>
<td>Displays voltage when the generator is running.</td>
</tr>
<tr>
<td>Frequency (11)</td>
<td>Frequency of the generator set output.</td>
<td>Displays frequency when the generator is running. Nominally 50 or 60 Hz.</td>
</tr>
<tr>
<td>Battery Voltage (12)</td>
<td>Generator engine starting battery voltage</td>
<td>Typically 12-15 volts DC. A voltage below 12.5 VDC will trigger a low battery voltage warning, indicating that the battery should be charged or replaced. A voltage less than 12 volts DC will be displayed in red.</td>
</tr>
</tbody>
</table>

* Item numbers in parentheses () refer to Figure 1-4.

**Figure 1-7** Status Screen Displays
### 1.8 Event History

Click on event history to view recent activity on your generator. The controller hours for recent generator operation, including exercise runs or other generator set starts and stops, are displayed. Generator fault conditions including warnings and shutdowns are also displayed.

Active alerts appear in boldface. Click on Clear Active to clear the active fault conditions. Contact your local dealer or distributor for service if fault conditions continue to appear.

If you would like more information about a particular event, please click/touch that particular event to bring up the event details screen. See Figure 1-10 for information contained on the event details screen. Click on the arrow near the upper left corner of the details screen to return to the previous screen.

![Figure 1-8 Clear Active Events Confirmation](image)

1. Click CLEAR ACTIVE to clear active fault conditions

![Figure 1-9 Event History](image)

1. Back arrow returns to previous screen.

![Figure 1-10 Event Details](image)
1.9 Controls

From the controls view, you can:

- Start and stop a generator exercise
- View the status of outputs connected to the PIM or LCM
- Turn outputs connected to the PIM on and off.

The generator set controller must be in AUTO mode for remote start/stop using OnCue Plus.

1.9.1 Start Exercise

To start an exercise, click Start in the controls screen. The dialog box shown in Figure 1-11 opens. Click on START to confirm you want to start the generator set or CANCEL to exit and not start an exercise.

The exercise runs for 20 minutes (default setting) and then stops. Use the stop exercise command to stop the generator earlier, if necessary.

Exercise runs started through this command are unscheduled. Starting and stopping the engine using these commands does not change the exercise schedule on the generator set.

The exercise mode and duration can be changed through the Exercise screen. See Section 1.12.

![Figure 1-11 Select Exercise Type](image)

Figure 1-11 Select Exercise Type
1.9.2 Stop Exercise

After starting the engine using the Start button, click on Stop in the controls screen to stop the engine before the programmed stop time, if necessary. Then confirm by clicking on YES in the STOP GENERATOR window that appears in the center of the screen. See Figure 1-13.

The generator set controller must be in AUTO mode for remote start/stop using OnCue Plus.

Note: The Stop Exercise command will not stop the generator set if it was started at the controller by pressing RUN, by a remote start command from an ATS, or by a scheduled exercise set at the controller. If communication is lost, the generator will automatically shut down after the exercise period is elapsed.

Figure 1-13 Controls, Stop Exercise
1.9.3 PIM

OnCue® Plus allows remote control of items in your home. Controlling items remotely requires an installed and properly connected Programmable Interface Module (PIM). The programmable interface module (PIM) is available for purchase as an optional kit.

Electrical items such as appliances, outdoor lighting, storm shutters, etc. can be connected to outputs on the PIM and then turned on and off using OnCue Plus through your personal computer, smart phone, or tablet with Internet access.

The PIM provides two programmable inputs and six programmable outputs for connection to customer-supplied equipment. The PIM operates only with generator sets equipped with the Kohler RDC2, DC2, or VSC controller. See TT-1584 for PIM installation and setup instructions.

**Note:** PIM outputs 1 and 2 are factory-set to generator running and common fault. Outputs 1 and 2 cannot be controlled remotely through OnCue® Plus.

Use the controls screen to remotely control items in your home connected to outputs 3 through 6.

1. Select the controls screen in the OnCue Plus Toolbar.
2. Click on the tab labeled PIM.
3. Click on the name of the output to turn it on or off. The status indicator (ON/OFF) flashes for approximately 5 seconds before changing to the new status.

Once OnCue Plus is used to turn a PIM output on or off, the output will no longer be controlled by the generator set. For example, output 4 may initially be set to the engine oil low pressure warning. If OnCue Plus is used to turn that output on or off, the output will no longer turn on when the generator’s low oil pressure warning is activated. The output must be operated through OnCue Plus.

Use OnCue Plus to rename the output functions to identify the equipment connected to each output. See section 1.13, Settings, for label renaming instructions.

1.9.4 Load Shed

Click on the Load Shed tab in the controls screen to see the status of items connected to the load control module (LCM) or load shed kit. Non-essential loads connected to the load control relays are disconnected automatically when essential equipment is running to prevent generator set overload.

The item descriptions can be edited through the Settings view. See Section 1.13.
1.10 Parameters

The parameters shown in Figure 1-16 can be viewed from this screen. To change generator settings, go to the Settings tab and see Section 1.13.

Power

Total power and percent of rated power are displayed only for the following generator set models:

- 10RESV
- 12RESV
- 38RCL
- Two 14RESAs paralleled using the PowerSync™ APM
- Two 20RESAs or 20RESBs paralleled using the PowerSync™ APM

![Figure 1-16 Parameters](sample)
1.11 Dealer Communication

1.11.1 Enter Dealer Information

Use the Settings view to enter your dealer’s information before using the Dealer feature. See Section 1.13, Settings.

1.11.2 Email Your Dealer

Clicking on the EMAIL command will open the email application on your device and open a new email addressed to your dealer. Type in your message and send.

The OnCue Plus App on your smart phone or tablet will also allow you to call your dealer from this screen.

Figure 1-17 Dealer
1.12 Exercise

Click on Exercise to see and adjust the exercise settings. The exercise settings are displayed on the Exercise screen as shown in Figure 1-18.

Click on MANAGE in the upper right corner of the Exercise screen to change the exercise settings for the generator. See the generator operation and installation manuals for recommended exercise settings. The following settings can be changed:

Exercise Interval

Use the drop-down arrows to select weekly or every other week.

Exercise Run Duration

Choose how long the generator will run during exercise. Use the drop-down arrows to select from 10 to 30 minutes. 20 minutes is the default setting and is typically the minimum recommended duration.

Exercise Mode

Use the drop-down arrows to select the exercise mode.

- Unloaded Full-Speed Exercise. Runs the generator set at full speed without transferring the load from utility. The model VSG generator set runs at rated no-load speed.

- Unloaded Cycle Exercise. Runs the unloaded cycle exercise with complete system diagnostics. See generator set Operation Manual for information about the unloaded cycle exercise and diagnostics.

- Loaded Full-Speed Exercise. Runs the generator set at full speed and transfers the load from utility to the generator. At the end of the exercise cycle, the load is transferred back to utility before the generator stops.

Apply Changes

Be sure to click on Apply Changes at the bottom of the screen to save your settings.

![Exercise Settings Screenshot](image1.png)

1. Click on MANAGE to change exercise settings

Figure 1-18 Exercise
1. Click on the drop-down arrows and select the desired settings. See the generator set operation manual for recommended settings.
2. Click on Apply Changes to save the settings.
3. Click on the back arrow to return to the previous screen.

Figure 1-19 Manage Menu for Exercise Settings
1.13 Settings

Use the Settings view to set up email and text notifications, and also to change system settings, including the frequency of generator data updates and the labels on the PIM and load shed outputs. See Figure 1-20. This view also contains a Delete command that allows you to remove a generator from your list of monitored generators.

1.13.1 Add or Delete Email Recipients

To set up email notifications, click NEW to the right of Email Notification Recipients in the settings view. See Figure 1-20. In the Add Email Recipient view, type the recipient’s name and email address. Click SAVE. See Figure 1-21.

To remove an email address from the list, click EDIT to the right of the address to be deleted. Then click DELETE at the bottom of the Edit Email Recipient screen. See Figure 1-23.

1. Click NEW to add a recipient to the list.
2. Click EDIT to select events for notification or remove a recipient from the notification list.

Figure 1-20 Settings

Figure 1-21 Add Email Recipient
1.13.2 Text Message Configuration

Text messages can be sent by sending an email to your cell phone.

SMS text messaging to a cellular telephone or other device is accomplished by sending an email to the cellular provider’s email-to-SMS system. For example, if the customer is a subscriber of Verizon Wireless with the cellular telephone number 920-555-1212, a text message can be sent to their cell phone by sending an email to 9205551212@vtext.com. Contact your cell service provider for the email address to use for SMS text messaging.

Determine the customer’s cellular telephone service provider and verify that their cell phone is equipped to receive SMS messages. Consult the cell phone provider or the provider’s website for the email address configurations for text messaging. Make sure that the customer is aware of any text messaging charges the cellular telephone provider may charge for received text messages.

1.13.3 Email and Text Notifications

OnCue® Plus can be configured to send email or SMS text messages alerting the recipient of generator set faults, exercise updates, and maintenance reminders.

Email and text messages include:
- Device description (user-defined)
- Generator state
- Description of the event

The events shown in Figure 1-22 will generate an email message.

A separate message is sent for each active warning and shutdown. If multiple warnings clear or shutdowns reset at the same time, you will receive one email indicating all information. See the generator set Operation Manual for a list of warnings and shutdowns.

See Section 1.13.4 for instructions to select the type of messages sent to each recipient.

<table>
<thead>
<tr>
<th>Event</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exercise start/exercise ended</td>
<td>Exercise messages are available if a Kohler Model RXT transfer switch is connected to the generator.</td>
</tr>
<tr>
<td>Generator running/generator stopped</td>
<td>If a Kohler Model RXT transfer switch is connected to the generator, you will see these messages and the exercise messages when the generator exercises, if both messages are selected.</td>
</tr>
<tr>
<td>Generator in auto/not in auto</td>
<td>If the OFF or RUN buttons on the generator controller are pressed, the unit is not in AUTO. Remote start/stop commands will not work and scheduled exercises will not run when the unit is not in AUTO. When AUTO is pressed again, a message is sent to notify you that the generator has returned to AUTO mode.</td>
</tr>
<tr>
<td>Utility loss/utility restored</td>
<td>If a Kohler Model RXT transfer switch is connected to the generator, you will see these messages indicating utility power outage and restoration.</td>
</tr>
<tr>
<td>Communication loss/restored</td>
<td>Loss of communication has no bearing on the generator functioning as a standby source of power.</td>
</tr>
<tr>
<td>Warnings active/cleared</td>
<td>Warning messages are dependent on the generator set. The message will include information about the cause of the warning; for example, low oil pressure. <strong>Note:</strong> Maintenance reminders are considered warnings. Turn on Warnings active/cleared to receive notifications of maintenance reminders.</td>
</tr>
<tr>
<td>Shutdown active/reset</td>
<td>Shutdown messages are dependent on the generator set. The message will include information about the cause of the shutdown; for example, high engine temperature.</td>
</tr>
</tbody>
</table>

Figure 1-22 Power System Events that Can Generate an Email or Text Message
1.13.4 Select Event Notifications

You can customize the email notifications sent to each recipient by selecting the events that will send an email notification for each email address. After adding email recipients, return to the Settings page and click on EDIT after the recipients email address. For each event listed in the Edit Email Recipient screen (see Figure 1-23), click on the ON/OFF box on the right to turn notification ON or OFF for each event. Each recipient can have a different combination of event notifications. Click SAVE after making the selections.

Maintenance Reminders. To receive notifications for maintenance reminders for your generator set, turn ON Warnings active/cleared. See the generator Operation Manual for a list of scheduled maintenance tasks that must be performed at regular intervals.

The default selection will send notifications for all events. Clicking RESTORE DEFAULTS turns on all notifications for the selected recipient.

Clicking DELETE will remove the recipient from the email notification list.

Figure 1-23 Edit Email Recipients to Select Events for Notification or Delete an Address from the List
1.13.5 Push Notifications

Using the OnCue Plus App to Manage and View Notifications

The OnCue Plus app includes a notification center for your smart phone or tablet. The default setting will send notifications for all genset events shown in Figure 1-22. You can turn off the notifications for some events if you don’t want to receive them. In order to manage your notifications, go to the Settings screen > Notification Settings > Push Notification Settings. See Figure 1-25.

See Figure 1-24 for an example of notifications.

1. Tap Edit Notification Settings.
2. Tap Edit Push Notification Settings.
3. Tap to turn notifications for each event off or on (scroll down for more events).
4. Restore Defaults turns notifications on for all events.
5. Tap to save your selections.
6. Red “ringing” bell indicates active notifications. Tap to view notifications. See Figure 1-24 for an example of notifications.

Figure 1-25 Push Notification Settings in the OnCue Plus App (for smart phones and tablets)
**Viewing Notifications in the Web Application**

In-app notifications can be viewed using the OnCue Plus web application. The bell icon at the top of the screen turns red to indicate that there are notifications. See Figure 1-26. Click on the red bell icon to view the active notifications.

See Figure 1-24 for an example of notifications.

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**Figure 1-26** Notification Indicator on the Web Version of OnCue Plus

1. The red “ringing” bell indicates active notifications. Click on the bell to view notifications.
1.13.6 Data Refresh Interval

Generator data is updated in OnCue® Plus as soon as possible. In some cases, you may want to change the data updates to send data less often. For example:

- If you have a data plan that charges by the amount of data or limits the amount of data received, you may want to update less often.
- When the utility power is out and your generator set is supplying your home, you may want to select updates every 5 minutes until the utility power returns and the generator set shuts down.
- Selecting “On page load” will update the data only when you change your view in OnCue Plus.

![Data Refresh](image)

Figure 1-27 Data Refresh
1.13.7 Generator Settings

The Generator Settings view allows you to change the name and password for the generator.

Change Generator Display Name

When a generator is connected for the first time, the generator name displayed in OnCue® Plus will be the generator serial number. Use the Genset Name setting to change the name to something that identifies the generator. For example, you can rename the unit using your name or a location. If your dealer or distributor will be monitoring the generator, use a name that distinguishes your unit from other customers’ equipment. Names must contain at least four characters, and can use letters and numbers.

Click on GENSET DISPLAYNAME. Type in the new name and click on the green box labeled RENAME.

Note: Changing the display name will change it on all accounts that monitor the generator. The customer and the dealer cannot have different names for the same generator.

Change Generator Password

Change the generator password from the 4-digit controller password to a password of your choice. If the password is changed, other users will lose the OnCue Plus connection to that generator. If your dealer is monitoring your generator, be sure to give him/her the new password.

Click on GENSET PASSWORD. Type the new password into both boxes and click CHANGE PASSWORD.

Generator Location

Click on GENSET LOCATION. Type in the new address or other information that identifies the generator location, and click on CHANGE LOCATION.

Figure 1-28 Generator Settings
1.13.8 Rename Outputs (PIM and Load Shed)

Use the Settings view to change the PIM and load shed output labels to show what is being controlled. For example, connect output 3 to the storm shutters on your vacation home and label it Storm Shutters. When bad weather is forecast, you can use OnCue Plus to close the storm shutters from a remote location. See Section 1.9, Control.

Click on EDIT after RENAME PIM OUTPUTS or RENAME LOAD SHED OUTPUTS in the Settings screen. See Figure 1-20. The RENAME screen appears. Click on the label that you want to change. Type in the new label and click RENAME. See Figure 1-29. Click on the back arrow near the upper left corner of the screen to return to the previous screen.

![Figure 1-29 Editing PIM or Load Shed Labels](image)

1. Type in new label
2. Click RENAME
3. Click on the back arrow to return to the previous screen.
1.13.9 Dealer Information

Enter your dealer’s information, including their email address. See Figure 1-31. This allows you to email your dealer using the Dealer view described earlier.

1.13.10 Delete a Generator

The Delete Generator command, where Generator is replaced with the name of the currently selected generator, allows you to remove the generator from your list of monitored units.

Go to the Add Generator view on the left and select the unit that you want to delete. Then go to Settings, and check that the Delete command shows the name of the unit that you want to remove. Touch Delete Generator to remove the unit from your list. A confirmation box appears to make sure you want to delete the generator. Click Delete or Cancel.

Note: Once deleted, the generator no longer appears on the list in the Add Generator view.

After a unit has been removed, you will need to follow the Add Generator procedure to add it again if you want to put it back on your list.

Figure 1-30 Delete a Generator

Figure 1-31 Edit Dealer Information
Section 2 Frequently Asked Questions

This section includes answers to questions that are frequently asked by customers. Please review this section if you have questions about OnCue® Plus operation.

Q) If an exercise is started from OnCue Plus, will this affect the previously scheduled exercise on the controller?

A) Using OnCue Plus to start an exercise has no impact on the exercise schedule set from the RDC/DC/RDC2/DC2 controller. This is more of a manual exercise than a scheduled exercise. However, the times listed in the Maintenance tab for Exercise Start Time and Next Exercise will temporarily reflect the times associated with the last exercise performed from OnCue Plus, until the next regularly scheduled exercise occurs, at which point the times will once again reflect the correct information.

Q) Can exercises be scheduled from OnCue Plus and override the controller schedule?

A) No, currently there is no way to schedule an exercise from OnCue Plus. However, you can adjust the exercise mode, interval (every week or every two weeks), and duration.

Q) Can OnCue Plus clear faults from a remote location?

A) OnCue Plus can clear warnings, but cannot reset shutdown faults remotely. This has no effect in the event log; it just resets active alerts.

Q) Can the OnCue Plus password be changed once initial setup is completed and the generator is connected?

A) Yes, the password can be changed within the OnCue Plus settings menu. However, changing it directly on the controller is not recommended as this will cause the generator to disconnect from the server.

Q) How can the password be changed at startup if the generator is failing to connect?

A) The power to the controller needs to be disconnected and then reconnected in order for the controller to communicate to the KOHLER server. We suggest that you have this completed by an authorized KOHLER dealer. Another solution is to reboot the controller by updating the firmware (even if updating to the same version), which will achieve the same purpose. You can update the firmware using a laptop computer and a mini-B USB cable. Instructions can be downloaded from: www.kohlergenerators.com/usb.

Q) Why does my OnCue Plus say “No ATS Detected”?

A) If your system uses a RXT transfer switch, then the generator has disconnected from the server or the communications have fallen off line between the transfer switch and generator. If you have an RXT ATS and this message is being displayed, it likely indicates a loss of communication between the generator and the ATS, and KOHLER recommends contacting your dealer for support. Other transfer switch models do not communicate with the controller except for the engine start signal, and are not detected by OnCue Plus. In this case, this message has no bearing on the generator performing its backup duties in case of a power outage. OnCue Plus is specifically designed to integrate with generators paired with an RXT automatic transfer switch (ATS). If an ATS other than an RXT is paired with the generator, OnCue Plus will be unable to recognize its presence, and the message of “No ATS Detected” will be displayed. This will not affect generator operation, but if the exercise cycle is being scheduled by the ATS, you will be unable to adjust the exercise cycle settings from OnCue Plus.
Q) Why does my generator disconnect frequently?

A) If there is a disruption to your Internet service, the generator will lose connection to our server. Such disruptions are not all that uncommon, and your generator will typically reconnect to our server within a matter of seconds or minutes. However, if the disconnection lasts longer, the generator’s controller may need to be rebooted in order to re-establish the connection. You can do this yourself if you have a laptop and a mini-B USB cable. The process involves updating the controller firmware, which will reboot the controller (you can do this even if you already have the most recent version of firmware installed). Instructions can be downloaded from: www.kohlergenerators.com/usb. Otherwise, please contact your local Kohler dealer for assistance.

Q) Why do some values on the parameters page never seem to change, even when the generator is running? Specifically, the oil pressure parameter and the true total power parameters always seem stuck at 0.

A) Not all parameters apply to all generator models. In cases where the parameter does not apply to your model, the value will always show 0. For example, the low oil pressure gauge on our air-cooled models is a switch, not a continuous sensor, and therefore the oil pressure parameter for those models will always remain at 0.

Q) The old OnCue system had gauges that were very helpful; what happened to those with OnCue Plus?

A) We understand that some of the visual aspects of the OnCue software were important to our customers, and our developers are continuing to investigate improvements to OnCue Plus which could include aspects from OnCue.
**Appendix A Abbreviations**

The following list contains abbreviations that may appear in this publication.

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A, amp</td>
<td>ampere</td>
</tr>
<tr>
<td>ABDC</td>
<td>after bottom dead center</td>
</tr>
<tr>
<td>AC</td>
<td>alternating current</td>
</tr>
<tr>
<td>A/D</td>
<td>analog to digital</td>
</tr>
<tr>
<td>ADC</td>
<td>advanced digital control; analog to digital converter</td>
</tr>
<tr>
<td>adj.</td>
<td>adjust, adjustment</td>
</tr>
<tr>
<td>ADV</td>
<td>advertising dimensional drawing</td>
</tr>
<tr>
<td>Ah</td>
<td>amp-hour</td>
</tr>
<tr>
<td>AHWT</td>
<td>anticipatory high water temperature</td>
</tr>
<tr>
<td>AIIS</td>
<td>American Iron and Steel Institute</td>
</tr>
<tr>
<td>ALOP</td>
<td>anticipatory low oil pressure</td>
</tr>
<tr>
<td>alt.</td>
<td>alternator</td>
</tr>
<tr>
<td>Al</td>
<td>aluminum</td>
</tr>
<tr>
<td>ANSI</td>
<td>American National Standards Institute (formerly American Standards Association, ASA)</td>
</tr>
<tr>
<td>AO</td>
<td>anticipatory only</td>
</tr>
<tr>
<td>APDC</td>
<td>Air Pollution Control District</td>
</tr>
<tr>
<td>API</td>
<td>American Petroleum Institute, approx. American Petroleum Institute, API Auxiliary Power Unit</td>
</tr>
<tr>
<td>AQMD</td>
<td>Air Quality Management District</td>
</tr>
<tr>
<td>AR</td>
<td>as required, as requested</td>
</tr>
<tr>
<td>AS</td>
<td>as supplied, as stated, as suggested</td>
</tr>
<tr>
<td>ASE</td>
<td>American Society of Engineers</td>
</tr>
<tr>
<td>ASME</td>
<td>American Society of Mechanical Engineers</td>
</tr>
<tr>
<td>assy.</td>
<td>assembly</td>
</tr>
<tr>
<td>ASTM</td>
<td>American Society for Testing and Materials</td>
</tr>
<tr>
<td>ATDC</td>
<td>after top dead center</td>
</tr>
<tr>
<td>ATS</td>
<td>automatic transfer switch</td>
</tr>
<tr>
<td>auto.</td>
<td>automatic</td>
</tr>
<tr>
<td>aux.</td>
<td>auxiliary</td>
</tr>
<tr>
<td>avg.</td>
<td>average</td>
</tr>
<tr>
<td>AVR</td>
<td>automatic voltage regulator</td>
</tr>
<tr>
<td>AWG</td>
<td>American Wire Gauge</td>
</tr>
<tr>
<td>AWM</td>
<td>appliance wiring material</td>
</tr>
<tr>
<td>bat.</td>
<td>battery</td>
</tr>
<tr>
<td>BBDC</td>
<td>before bottom dead center</td>
</tr>
<tr>
<td>BC</td>
<td>battery charger, battery charging</td>
</tr>
<tr>
<td>BCA</td>
<td>battery charging alternator</td>
</tr>
<tr>
<td>BCI</td>
<td>Battery Council International</td>
</tr>
<tr>
<td>BDC</td>
<td>before dead center</td>
</tr>
<tr>
<td>BHP</td>
<td>brake horsepower</td>
</tr>
<tr>
<td>blk.</td>
<td>black (paint color), block (engine)</td>
</tr>
<tr>
<td>blk. htr.</td>
<td>block heater</td>
</tr>
<tr>
<td>BMEP</td>
<td>brake mean effective pressure</td>
</tr>
<tr>
<td>bps</td>
<td>bits per second</td>
</tr>
<tr>
<td>br.</td>
<td>brass</td>
</tr>
<tr>
<td>BTDC</td>
<td>before top dead center</td>
</tr>
<tr>
<td>Brit.</td>
<td>British thermal unit</td>
</tr>
<tr>
<td>Btu/min.</td>
<td>British thermal units per minute</td>
</tr>
<tr>
<td>cal.</td>
<td>calorie</td>
</tr>
<tr>
<td>CAN</td>
<td>controller area network</td>
</tr>
<tr>
<td>CARB</td>
<td>California Air Resources Board</td>
</tr>
<tr>
<td>CAT</td>
<td>Category 5 (network cable)</td>
</tr>
<tr>
<td>CB</td>
<td>circuit breaker</td>
</tr>
<tr>
<td>CC</td>
<td>crank cycle</td>
</tr>
<tr>
<td>cc</td>
<td>cubic centimeter</td>
</tr>
<tr>
<td>CCA</td>
<td>cold cranking amps</td>
</tr>
<tr>
<td>ccw.</td>
<td>counterclockwise</td>
</tr>
<tr>
<td>CEC</td>
<td>Canadian Electrical Code</td>
</tr>
<tr>
<td>cert.</td>
<td>certificate, certification, certified</td>
</tr>
<tr>
<td>cfh</td>
<td>cubic feet per hour</td>
</tr>
<tr>
<td>cfm</td>
<td>cubic feet per minute</td>
</tr>
<tr>
<td>CG</td>
<td>center of gravity</td>
</tr>
<tr>
<td>CID</td>
<td>cubic inch displacement</td>
</tr>
<tr>
<td>CL</td>
<td>centerline</td>
</tr>
<tr>
<td>cm</td>
<td>centimeter</td>
</tr>
<tr>
<td>CMOS</td>
<td>complementary metal oxide substrate (semiconductor)</td>
</tr>
<tr>
<td>com.</td>
<td>communications (port)</td>
</tr>
<tr>
<td>coml.</td>
<td>commercial</td>
</tr>
<tr>
<td>Cont./Rec.</td>
<td>Commercial/Recreational</td>
</tr>
<tr>
<td>conn.</td>
<td>continued</td>
</tr>
<tr>
<td>CPVC</td>
<td>chlorinated polyvinyl chloride</td>
</tr>
<tr>
<td>crit.</td>
<td>critical</td>
</tr>
<tr>
<td>CSA</td>
<td>Canadian Standards Association</td>
</tr>
<tr>
<td>CT</td>
<td>current transformer</td>
</tr>
<tr>
<td>Cu</td>
<td>copper</td>
</tr>
<tr>
<td>cUL</td>
<td>Canadian Underwriter's Laboratories</td>
</tr>
<tr>
<td>cu. in.</td>
<td>cubic inch</td>
</tr>
<tr>
<td>cw.</td>
<td>clockwise</td>
</tr>
<tr>
<td>CWC</td>
<td>city water-cooled</td>
</tr>
<tr>
<td>cyl.</td>
<td>cylinder</td>
</tr>
<tr>
<td>D/A</td>
<td>digital to analog</td>
</tr>
<tr>
<td>DAC</td>
<td>digital to analog converter</td>
</tr>
<tr>
<td>decib</td>
<td>decibel</td>
</tr>
<tr>
<td>dB</td>
<td>decibel</td>
</tr>
<tr>
<td>dB(A)</td>
<td>decibel (A weighted)</td>
</tr>
<tr>
<td>dc</td>
<td>direct current</td>
</tr>
<tr>
<td>DCR</td>
<td>direct current resistance</td>
</tr>
<tr>
<td>deg., °</td>
<td>degree</td>
</tr>
<tr>
<td>dept.</td>
<td>department</td>
</tr>
<tr>
<td>dia.</td>
<td>diameter</td>
</tr>
<tr>
<td>DI/EO</td>
<td>dual inlet/end outlet</td>
</tr>
<tr>
<td>DIN</td>
<td>Deutsches Institut fur Normung e. V. (also Deutsche Industrie Normenausschuss)</td>
</tr>
<tr>
<td>DIP</td>
<td>dual inline package</td>
</tr>
<tr>
<td>DPDT</td>
<td>double-pole, double-throw</td>
</tr>
<tr>
<td>DPST</td>
<td>double-pole, single-throw</td>
</tr>
<tr>
<td>DS</td>
<td>disconnect switch</td>
</tr>
<tr>
<td>DVR</td>
<td>digital voltage regulator</td>
</tr>
<tr>
<td>E2PROM</td>
<td>electrically-erasable programmable read-only memory</td>
</tr>
<tr>
<td>EEC</td>
<td>engine control module</td>
</tr>
<tr>
<td>E, emer.</td>
<td>emergency (power source)</td>
</tr>
<tr>
<td>ECM</td>
<td>electronic engine control module, engine control module</td>
</tr>
<tr>
<td>EDR</td>
<td>electronic data interchange</td>
</tr>
<tr>
<td>EMI</td>
<td>electromagnetic interference</td>
</tr>
<tr>
<td>eng.</td>
<td>engine</td>
</tr>
<tr>
<td>EPA</td>
<td>Environmental Protection Agency</td>
</tr>
<tr>
<td>EPS</td>
<td>emergency power system</td>
</tr>
<tr>
<td>ES</td>
<td>emergency special, engineered special</td>
</tr>
<tr>
<td>ESD</td>
<td>electrostatic discharge</td>
</tr>
<tr>
<td>est.</td>
<td>estimated</td>
</tr>
<tr>
<td>E-Stop</td>
<td>emergency stop</td>
</tr>
<tr>
<td>etc.</td>
<td>etcetera (and so forth)</td>
</tr>
<tr>
<td>exh.</td>
<td>exhaust</td>
</tr>
<tr>
<td>ext.</td>
<td>external</td>
</tr>
<tr>
<td>F</td>
<td>Fahrenheit, female</td>
</tr>
<tr>
<td>FHM</td>
<td>flat head machine (screw)</td>
</tr>
<tr>
<td>fl. oz.</td>
<td>fluid ounce</td>
</tr>
<tr>
<td>flex.</td>
<td>flexible</td>
</tr>
<tr>
<td>freq.</td>
<td>frequency</td>
</tr>
<tr>
<td>FS</td>
<td>full scale</td>
</tr>
<tr>
<td>ft.</td>
<td>foot, feet</td>
</tr>
<tr>
<td>ft. lb.</td>
<td>foot pounds (torque)</td>
</tr>
<tr>
<td>ft./min.</td>
<td>feet per minute</td>
</tr>
<tr>
<td>ftp</td>
<td>file transfer protocol</td>
</tr>
<tr>
<td>g</td>
<td>gram</td>
</tr>
<tr>
<td>ga.</td>
<td>gauge (meters, wire size)</td>
</tr>
<tr>
<td>gal.</td>
<td>gallon</td>
</tr>
<tr>
<td>gen.</td>
<td>generator</td>
</tr>
<tr>
<td>genset</td>
<td>generator set</td>
</tr>
<tr>
<td>GFI</td>
<td>ground fault interrupter</td>
</tr>
<tr>
<td>GND.</td>
<td>ground</td>
</tr>
<tr>
<td>gov.</td>
<td>governor</td>
</tr>
<tr>
<td>gph</td>
<td>gallons per hour</td>
</tr>
<tr>
<td>gpm</td>
<td>gallons per minute</td>
</tr>
<tr>
<td>gr.</td>
<td>grade, gross</td>
</tr>
<tr>
<td>GRD</td>
<td>ground equipment ground</td>
</tr>
<tr>
<td>gr. wt.</td>
<td>gross weight</td>
</tr>
<tr>
<td>H x W</td>
<td>height by width by depth</td>
</tr>
<tr>
<td>HC</td>
<td>hex cap</td>
</tr>
<tr>
<td>HCHT</td>
<td>high cylinder head temperature</td>
</tr>
<tr>
<td>HD</td>
<td>heavy duty</td>
</tr>
<tr>
<td>HET</td>
<td>high exhaust temp., high engine temp.</td>
</tr>
<tr>
<td>hex</td>
<td>hexagon</td>
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<tr>
<td>Hg</td>
<td>mercury (element)</td>
</tr>
<tr>
<td>HH</td>
<td>hex head</td>
</tr>
<tr>
<td>HHC</td>
<td>hex head cap</td>
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<tr>
<td>HP</td>
<td>horsepower</td>
</tr>
<tr>
<td>hr.</td>
<td>hour</td>
</tr>
<tr>
<td>HS</td>
<td>heat shrink</td>
</tr>
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<td>hsg.</td>
<td>housing</td>
</tr>
<tr>
<td>HVAC</td>
<td>heating, ventilation, and air conditioning</td>
</tr>
<tr>
<td>HWT</td>
<td>high water temperature</td>
</tr>
<tr>
<td>Hz</td>
<td>hertz (cycles per second)</td>
</tr>
<tr>
<td>IB, IBC</td>
<td>International Building Code</td>
</tr>
<tr>
<td>IC</td>
<td>integrated circuit</td>
</tr>
<tr>
<td>ID</td>
<td>inside diameter, identification number</td>
</tr>
<tr>
<td>IEC</td>
<td>International Electrotechnical Commission</td>
</tr>
<tr>
<td>IEEE</td>
<td>Institute of Electrical and Electronics Engineers</td>
</tr>
<tr>
<td>IMS</td>
<td>improved motor starting</td>
</tr>
<tr>
<td>in.</td>
<td>inch</td>
</tr>
<tr>
<td>in. H2O</td>
<td>inches of water</td>
</tr>
<tr>
<td>in. Hg</td>
<td>inches of mercury</td>
</tr>
<tr>
<td>in. lb.</td>
<td>inch pounds</td>
</tr>
<tr>
<td>Inc.</td>
<td>incorporated</td>
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<tr>
<td>ind.</td>
<td>industrial</td>
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<tr>
<td>int.</td>
<td>internal</td>
</tr>
<tr>
<td>int./ext.</td>
<td>internal/external</td>
</tr>
<tr>
<td>I/O</td>
<td>input/output</td>
</tr>
<tr>
<td>IP</td>
<td>internet protocol</td>
</tr>
<tr>
<td>ISO</td>
<td>International Organization for Standardization</td>
</tr>
<tr>
<td>J</td>
<td>joule</td>
</tr>
<tr>
<td>JIS</td>
<td>Japanese Industry Standard</td>
</tr>
<tr>
<td>k</td>
<td>kilo (1000)</td>
</tr>
<tr>
<td>K</td>
<td>kelvin</td>
</tr>
<tr>
<td>kA</td>
<td>kiloampere</td>
</tr>
<tr>
<td>KB</td>
<td>kilobyte (210 bytes)</td>
</tr>
<tr>
<td>KBus</td>
<td>Kohler communication protocol</td>
</tr>
<tr>
<td>kg</td>
<td>kilogram</td>
</tr>
</tbody>
</table>
kg/cm² kilogrammes per square centimetre
kgm kilogram-metre
kg/m³ kilogrammes per cubic metre
kHz kilohertz
kJ kilojoule
km kilometre
kOhm kilo-ohm
kPa kilopascal
kph kilometres per hour
kV kilovolt
kVAR kilovolt ampere reactive
kW kilowatt
kWh kilowatt-hour
kWm kilowatt mechanical
kWth kilowatt-thermal
L liter
LAN local area network
L x W x H length by width by height
lb pound, pounds
lbm/ft³ pounds mass per cubic feet
LCB line circuit breaker
LCD liquid crystal display
LED light emitting diode
Lph litres per hour
Lpm litres per minute
LQP low oil pressure
LP liquefied petroleum
LPG liquefied petroleum gas
LS left side
Lₘₗₚ sound power level, A weighted
LWL low water level
LWT low water temperature
m meter, milli (1/1000)
M mega (10⁶ when used with SI units), male
m³ cubic meter
m³/hr. cubic metres per hour
m³/min. cubic metres per minute
mA milliampere
man. manual
max. maximum
MB megabyte (2²⁰ bytes)
MCCB molded-case circuit breaker
MCM one thousand circular mils
meggar megohmmeter
Mhz megahertz
mi mile
mil one one-thousandth of an inch
min. minimum, minute
misc. miscellaneous
MJ megajoule
mJ millijoule
mm millimeter
mOhm, mΩ milli-ohm
MOV metal oxide varistor
MPa megapascal
mpg miles per gallon
mph miles per hour
MS military standard
ms millisecond
m/sec. meters per second
mtg. mounting
MTU Motoren-und Turbinen-Union
MW megawatt
mW milliwatt
μF microfarad
N. norm. normal (power source)
NA not available, not applicable
nat. gas natural gas
NBS National Bureau of Standards
NC normally closed
NEC National Electrical Code
NEMA National Electrical Manufacturers Association
NFPA National Fire Protection Association
Nm newton meter
NO normally open
nA, nA number, numbers
NPS National Pipe, Straight
NPCS National Pipe, Straight-coupling
NPT National Standard taper pipe thread per general use
NPTF National Pipe, Taper-Fine
nr not required, normal relay
ns nanosecond
OC overcrank
OD outside diameter
OEM original equipment manufacturer
OF overfrequency
opt. option, optional
OS oversize, overspeed
OSHAA Occupational Safety and Health Administration
OV overvoltage
oz ounce
p., pp. page, pages
PC personal computer
PCB printed circuit board
pF picofarad
PF power factor
ph., φ phase
PHC Phillips® head Crimptite® (screw)
PHH Phillips® hex head (screw)
PHM pan head machine (screw)
PLC programmable logic control
PMG permanent magnet generator
pot potentiometer, potential
ppm parts per million
PROM programmable read-only memory
psi pounds per square inch
psig pounds per square inch gauge
pint
PTC positive temperature coefficient
PTO polyvinyl chloride
qt quart, quarts
qty. quantity
R replacement (emergency)
rad. radiator, radius
RAM random access memory
RBUS RS-485 proprietary communications
RDO relay driver output
ref. reference
rem. remote
Res/Coml Residential/Commercial
RFI radio frequency interference
RH round head
RHM round head machine (screw)
relay
rms root mean square
rnd. round
RO read only
ROM read only memory
rot. rotate, rotating
rpm revolutions per minute
RS right side
RTDs Resistance Temperature Detectors
RTU remote terminal unit
RV room temperature vulcanization
RW read/write
SAE Society of Automotive Engineers
scfm standard cubic feet per minute
SCR silicon controlled rectifier
s, sec. second
SI Systeme international d’unites, International System of Units
S/I/EO side in/out
sil. silencer
SMTP simple mail transfer protocol
SN serial number
SNMP simple network management protocol
SPDT single-pole, double-throw
SPST single-pole, single-throw
spec specification
specs specification(s)
sq. square
sq. cm square centimeter
sq. in. square inch
SMS short message service
SS stainless steel
std. standard
stl. steel
tach. tachometer
TB terminal block
TCP transmission control protocol
TD time delay
TDC top dead center
TDEC time delay engine cooldown
TDEN time delay emergency to normal
tDES time delay engine start
TDNE time delay normal to emergency
TDOE time delay off to emergency
TDON time delay off to normal
temp. temperature
term. terminal
THD total harmonic distortion
TIF telephone influence factor
tol. tolerance
turbo. turbocharger
typ. typical (same in multiple locations)
UF underfrequency
UHF ultra-high frequency
UIF user interface
UL Underwriter’s Laboratories, Inc.
UNC unified coarse thread (was NC)
UNF unified fine thread (was NF)
univ. universal
URL uniform resource locator (web address)
US undersize, undersized
UV ultraviolet, undervoltage
V volt
VAC volts alternating current
VAR voltampere reactive
VDC volts direct current
VFD vacuum fluorescent display
VGA video graphics adapter
VHF very high frequency
W watt
WCR withstand and closing rating
w/ with
WO write only
w/o without
wt. weight
xfmr transformer