

5.11 Control Module Battery Replacement and Reset to Default Values

Instructions

Applies to: Cytec IF-9 and IF-11 Control Modules with coin cell batteries

Board #'s:

IF-9 11-10-10 through 11-10-14 all -x revisions

IF-11 11-14-10 through 11-14-14 revisions -1 and -2

Refer to **Drawing 11-10-10-1 Jumper and Battery**

Or Drawing 11-14-10-1 Battery and Jumper

Applies to: Cytec IF-11 Control Modules with 3.6 V Lithium AA battery

Board #'s:

IF-11 11-14-10 through 11-14-14 revisions -3

Refer to **Drawing 11-14-10-3 Battery and Jumpers**

When needed:

Procedure applies to any time the battery is removed or replaced on control module due to sanitizing procedures, battery dies, or control module needs to be reset to default values in order to restore communication due to lost IP address, Port #'s, RS232 Baud rate or GPIB address.

The battery maintains RAM settings and are intended to last at least 10 years even if the unit is never turned on but we have experienced premature failures and it is a known issue.

Cytec will replace the control module with a newer version that does not require a battery upon request. Contact us with the serial number of your unit to begin that process.

Please read the important note on page 3 before you begin this process which could save you a lot of time and trouble!

Procedure for replacing battery and / or resetting to default values:

See **Drawing # from above that applies to your control module.**

Battery Test and Replacement:

- 1) Unplug unit.
 - 2) Remove top panel of switching system.
 - 3) Locate control module.
 - 4) Measure Battery voltage using a handheld volt meter. Batteries below 2.7 Volts should be replaced.
 - 5) If battery is above 2.7 V go to step 7 below.
 - 6) Remove old battery and replace with new 3 V coin cell or 3.6 V Lithium AA Battery.
- Contact Cytec for PN or see drawings.

Continued on following page...

Control Module Reset to Default Values:

- 7) Locate Jumper JP1. It will be offset. Remove it from the single pin and reinstall across pins of J1.
- 8) Plug unit back into AC. Keep hands out of unit until unplugged again.
- 9) Turn on power for 15 to 20 seconds.
- 10) Turn power back off and unplug unit.
- 11) Remove jumper J1 and reinstall in offset position so it no longer jumpers across the pins.
- 12) Plug unit back in and turn on. Unit will now be set to default values.
- 13) Read below and if default values are good, then establish communications and make sure the switch now functions. If it functions as intended then replace top panel.
- 14) If it does not function after this, contact Cytec for detailed tech support.

Instructions after reset:

Depending on the specific configuration of the unit you may now simply be able to operate it normally again. Some unit will require setting matrix size parameters or configuration specific values. Contact Cytec to determine if this is the case with your specific unit. It is a good idea to have the serial # of the unit handy when requesting tech support via phone or e-mail.

Default Values for single chassis mainframes

P 0 1	One Matrix
P 7	NV RAM disabled
P 8 0	Load List #0 if NV RAM disabled
P 10 X	X = System dependent
P 20 X	X = System dependent
P 24 0	0 to 31 addressing
P 19 6	Baud rate 9600
P 90 0	ID# = 0
E 0	Echo off
V 0	Verbose off
A 1	Answerback on

IP	10.0.0.144
Netmask	255.0.0.0
Gateway	0.0.0.0
Port 0	8080
Port 1	8081
Socket Timeout	60 seconds
GPIB Address	7

Continued on following page.....

Please see the manual for commands used to reset any of these default values. Values such as IP address, port #, Baud rate or GPIB address will not change until the unit has been turned off for 15 seconds and then turned back on. You should always reboot the system after sending any series of configuration commands.

If your system requires resetting to a specific configuration, Cytec can provide the command set to restore this. Contact Cytec with the serial # of your unit and we will provide the specific commands.

Important Note!

If you are using the Cytec switch at any of the default values for the control interface shown on page 2 such as:

IP Address 10.0.0.144 ports 8080 and 8081
RS232 default baud rate of 9600
GPIB Address 7

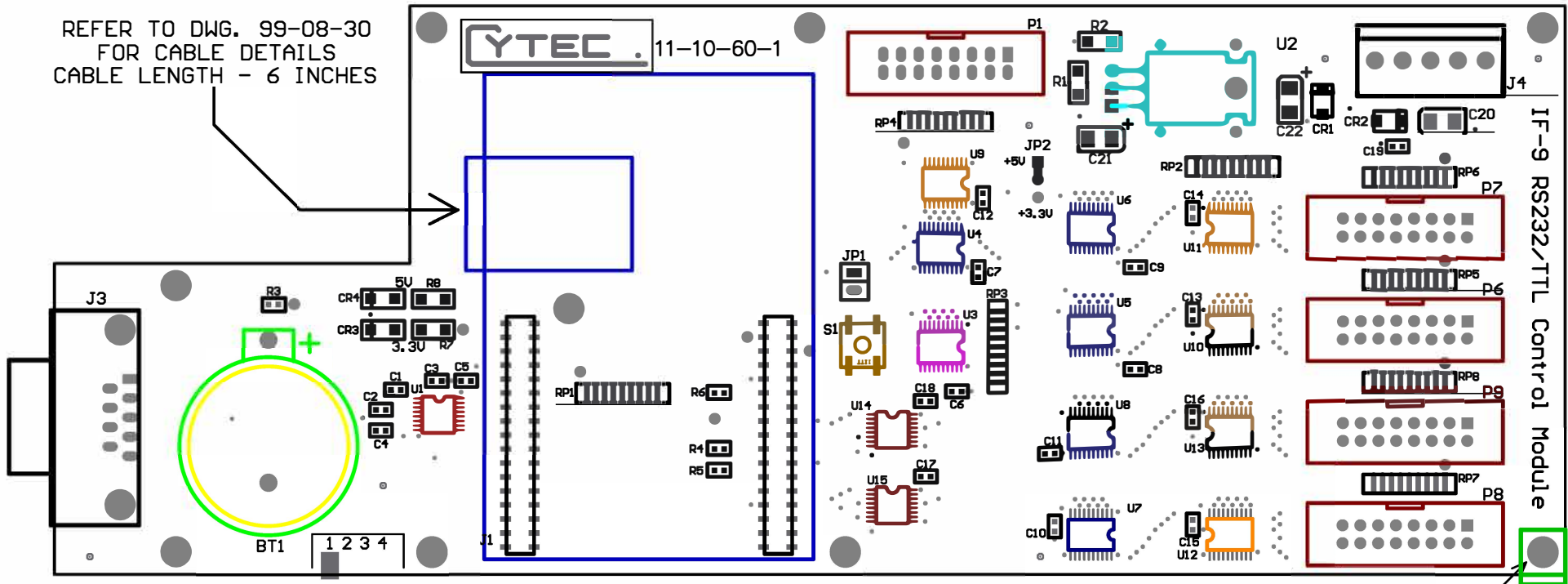
You do not need to even have a battery installed. You can simply remove the battery, install the Reset jumper and leave it installed. Every time you reboot it will automatically load the default values and work as intended. It is a good idea to contact Cytec before doing this so we can check that there is not any other default configuration settings that need to be changed since in some cases the system configuration settings may not allow this to work properly.

Call: 585.381.4740
E-mail: sales@cytec-ate.com
Web: cytec-ate.com

ASSEMBLY PROCESS DETAIL

ASSEMBLY NO	REV	DESCRIPTION	OPERATION
11-10-10-1		IF-9 CONTROL MODULE	WRITTEN BY: KJA
		5U ASSEMBLY	DATE: 19-Jun-2013

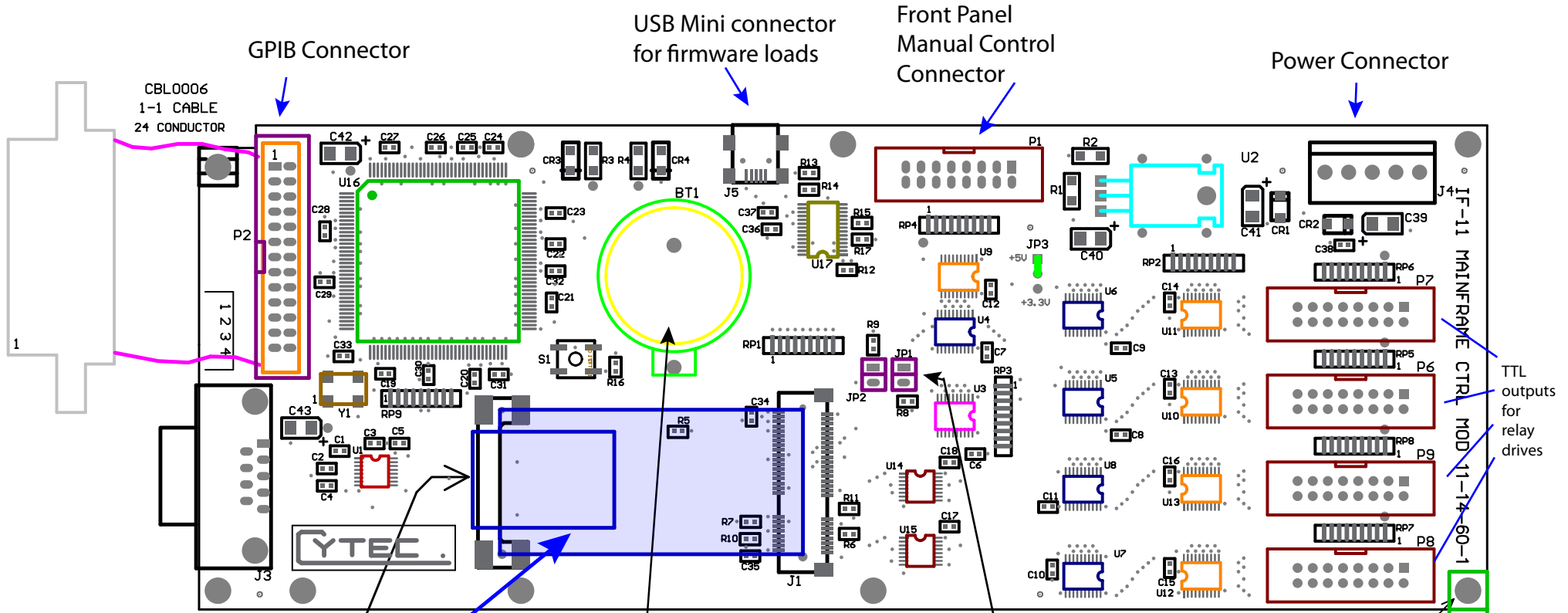
REFER TO DWG. 99-08-30
FOR CABLE DETAILS
CABLE LENGTH - 6 INCHES



SCREW (INSERT FAR SIDE)
KEMP NUT (NEAR SIDE)

ASSEMBLY PROCESS DETAIL

ASSEMBLY NO	REV	DESCRIPTION	OPERATION
11-14-10-1		IF-11 CONTROL MODULE	WRITTEN BY: KJA
		5V ASSEMBLY	Date: 12/7/17



REFER TO DWG. 99-08-30
FOR CABLE DETAILS
CABLE LENGTH - 6 INCHES

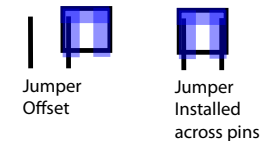
Rabbit Core Module
which should be removed
to sanitize module if needed.
See Cytec sanitization document
for details.

3 volt battery for RAM.
If battery fails the control module will stop working.
Measure voltage.
Normal voltage is 3.0 volts +/- 0.2 volts.
Check battery with unit off. Top of battery to
ground should be 3 V.
Part # Volts Dimensions
CR2330 3 23 x 3

Cross reference part #'s -
2330, BR2330, DL2330, E-CR2330, ECR2330,
KCR2330, KECR2330, KL2330, L2330

Normal battery life should exceed 10 years during use.
If unit is left off or unplugged battery life may be decreased to one year.

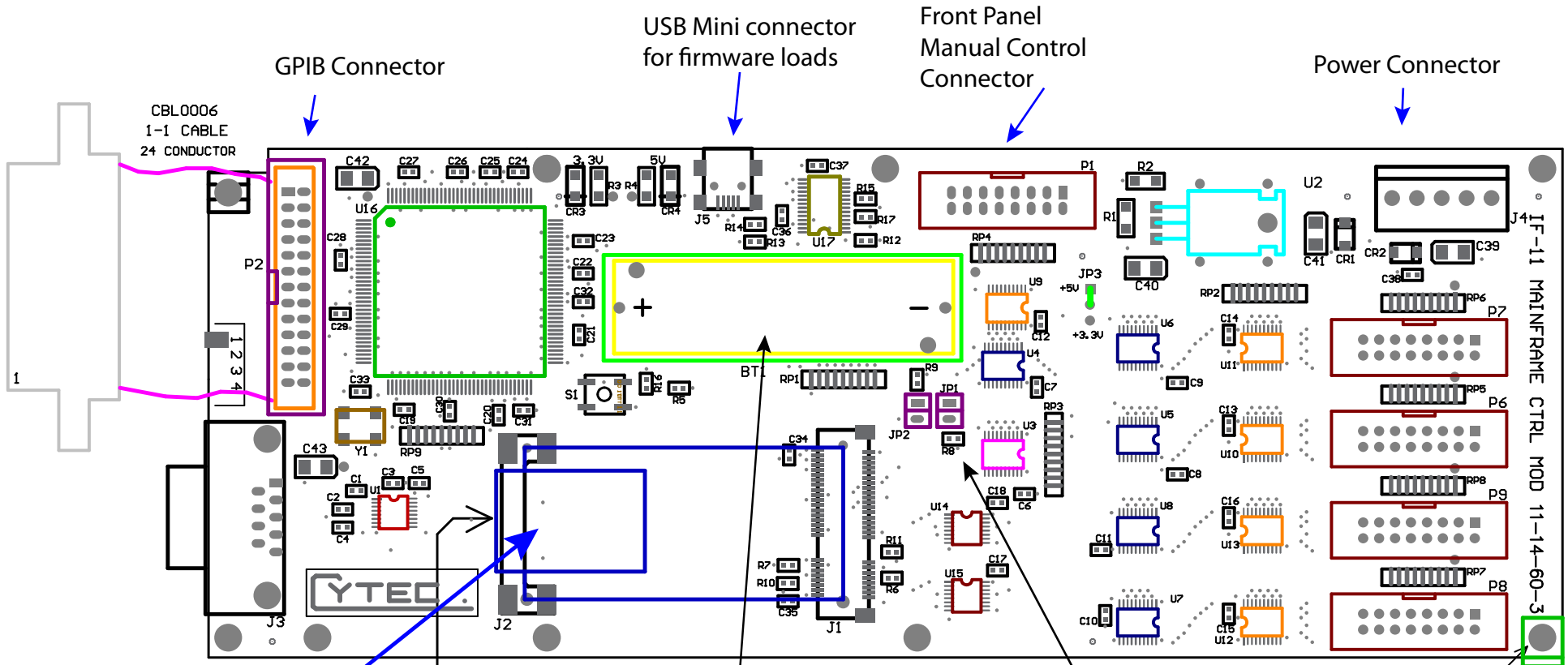
Reset Jumper JP1
Jumper should be offset. With power off, install jumper across pins.
Turn on power for 30 seconds. Turn power back off.
Remove jumper and offset on a single pin. Turn unit back on.
Control module will now be set to default values.



TTL
outputs
for
relay
drives

IF-11 MAINFRAME CTRL MOD 11-14-60-1

ASSEMBLY NO	REV	DESCRIPTION	OPERATION
11-14-10-3		IF-11 CONTROL MODULE	WRITTEN BY: KJA
		5U ASSEMBLY	DATE: 9-Feb-2018



CBL0006
1-1 CABLE
24 CONDUCTOR

GPIB Connector

USB Mini connector
for firmware loads

Front Panel
Manual Control
Connector

Power Connector

1

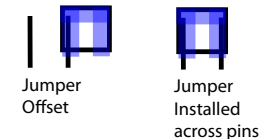
IF-11 MAINFRAME CTRL MOD 11-14-60-3

REFER TO DWG. 99-08-30
FOR CABLE DETAILS
CABLE LENGTH - 6 INCHES

3.6 volt battery for RAM.
If battery fails the control module will stop working.
Measure voltage.
Normal voltage is 3.6 volts +/- 0.2 volts.
Check battery with unit off. Top of battery to ground should be 3.6 V.
Part # Volts Dimensions
TL-5104/S 3.6 50.5mm x 14.5mm diameter
Cross Reference: Tadiran TL-2100, TL-4903, TL-5104, TL-5903; SAFT LS-14500, LS-14500C; Sonnenschein SL-360, SL-760; Toshiba ER6V, ER6LV; Maxell ER6, ER6C
Size:AA
Capacity:2.1 Ah
Normal battery life should exceed 10 years during use.

SCREW (INSERT FAR SIDE)
KEMP NUT (NEAR SIDE)

Reset Jumper JP1
Jumper should be offset. With power off, install jumper across pins. Turn power ON for 30 seconds. Turn power back off. Remove jumper and offset on a single pin. Turn back on. Control module will now be reset to default values.



Rabbit Core Module
which should be removed
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See Cytec sanitize document
for details.