



QCXD 无线电动拧紧系统安装使用操作

Sunny Sun, 2021

电动拧紧系统供电基本要求

- **Ingersoll Rand** 电动拧紧系统含控制器、QE/QM系列工具、电缆及相关控制附件，用于工业装配相关的扭矩、角度或屈服控制等。
- 供电要求：

两相交流电源	V~	Hz	A
	230	50	6
- 接地：确保电源可靠接地，控制器外壳可靠接地

Voltage	Power Outlet
230VAC, +/- 10%	powered through a 12A, NEMA 6-20R outlet.

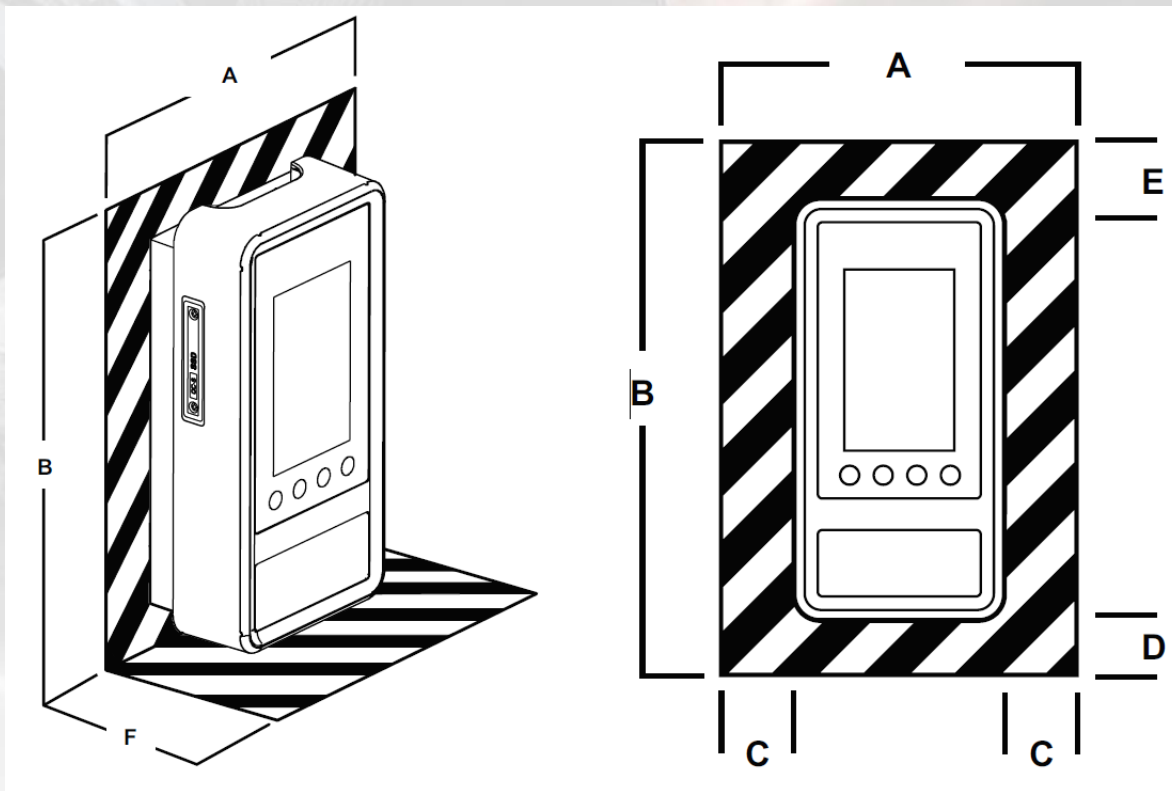
QCXD/M 控制器安装尺寸要求

A = 190 mm (7.5 in)
B = 463 mm (18 in) - 500 mm (19.7 in)
C = 10 mm (0.4 in)
D = 140 mm (5.5 in)
E = 20 mm (0.8 in)
F = 230 mm (9.0 in)

控制器安装，需要考虑和周边的间距，便于控制器的安装和通风散热。

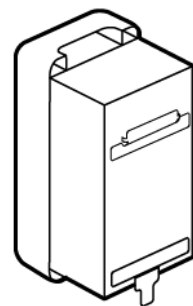
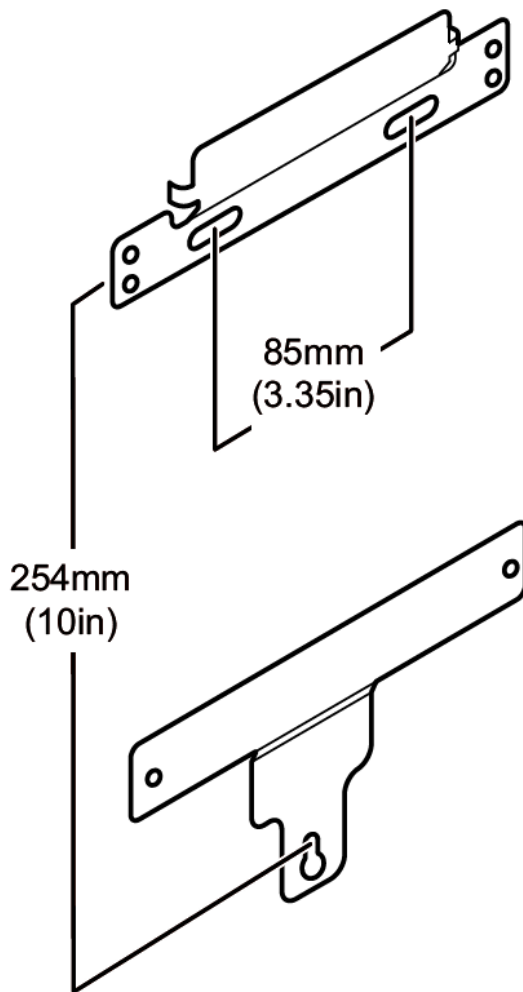
安装基座应稳定可靠，避免震动、摇晃。

如果安装基座有震动情况，应在控制器固定地脚和安装基座间增加缓震橡胶垫。

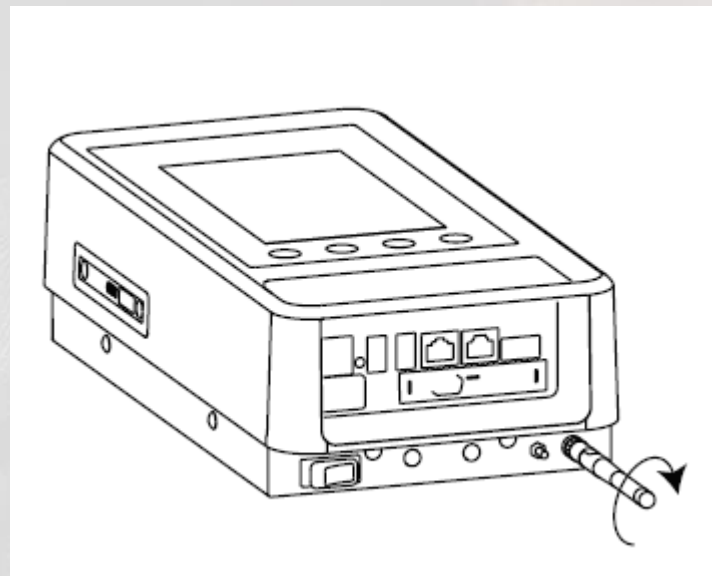
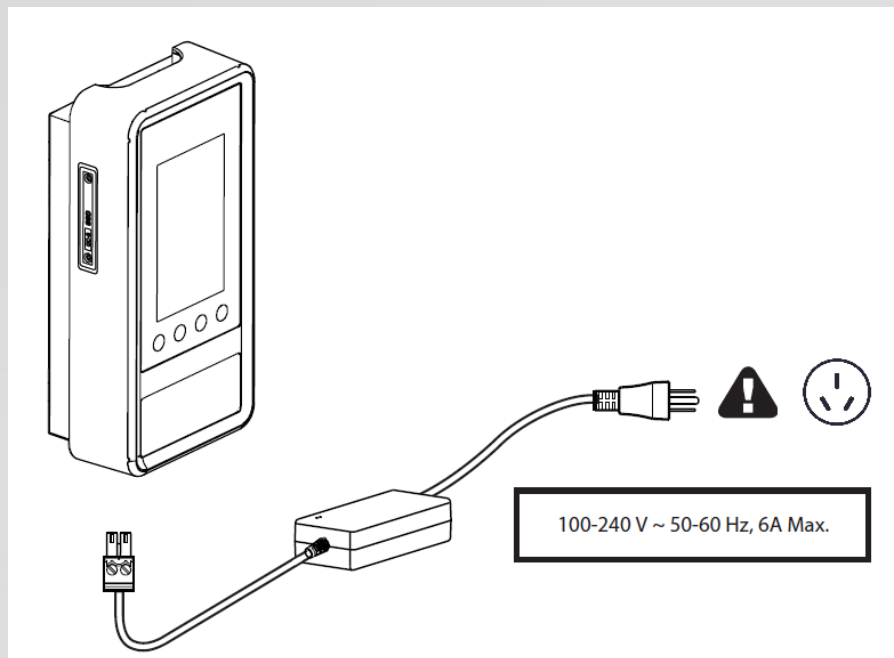


QCXD/M 安装螺丝孔规格

- 控制器安装支架的固定，使用控制器附件内的平头十字螺丝。
- 螺丝孔间距参考图示
- 安装基座有震动的情况，需要增加缓冲橡胶垫，减少震动对控制器的影响



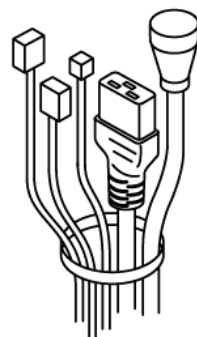
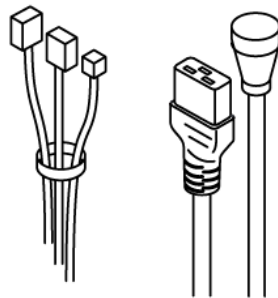
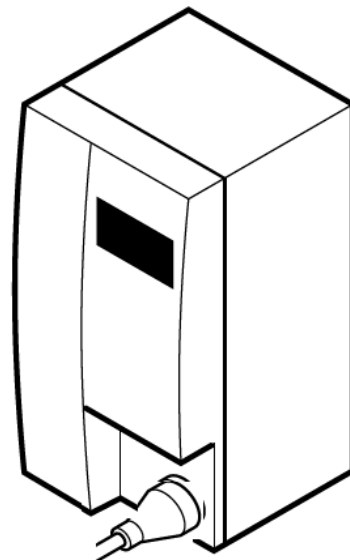
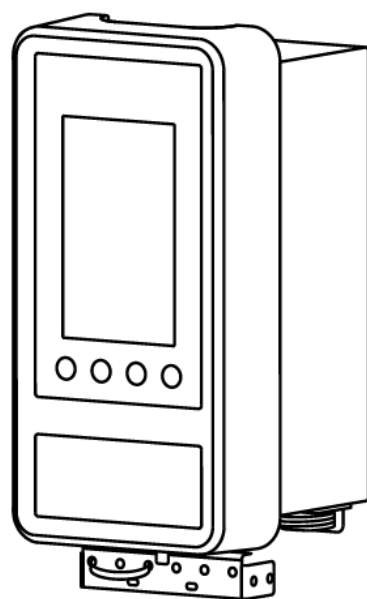
电源线和天线安装要求



- 电源线宜单独布线，与信号、控制等弱电线路分开，避免干扰。
- 电源线要绑扎固定在支架上，避免震动等造成接口接触不良
- 注意线路走向，避免靠近通道，减少人员、物体移动挂到电缆
- 电源线和电源连接宜用接线端子，尽量不用插头，以免接触不良或松脱

控制器布线要求

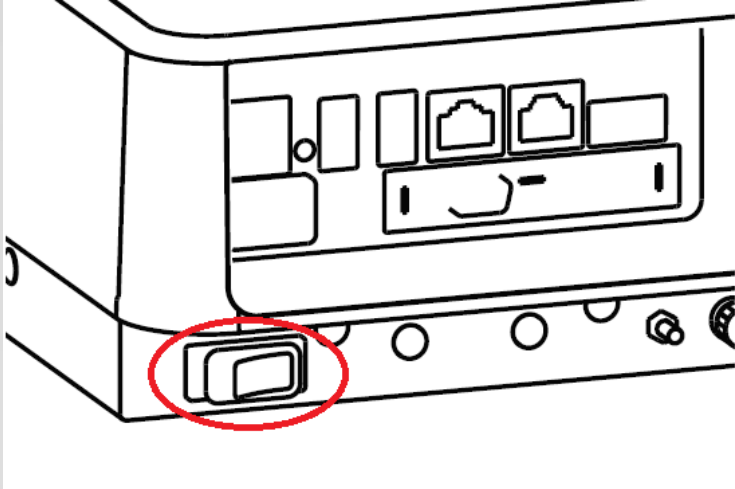
- 电源线和工具线单独布线，与信号、控制等弱电线路分开，避免干扰。
- I/O端子等引出线用屏蔽线的屏蔽接地，防止与旁边220V供电干扰
- 电源线和信号、控制线需要分别绑扎固定在支架上，避免震动等造成接口接触不良
- 强电、弱电线路分别走线，不能绑在一起
- 注意工具和连接器的连接线走向，避免靠近通道，减少人员、物体移动挂到电缆
- I/O接线宜用冷压端子
- 电源线和电源连接宜用接线端子，尽量不用插头，以免接触不良或松脱



注意事项

- 电动拧紧系统（含QCXD控制器、QX系列工具及相关控制附件）只能安装在室内
- 周围环境清洁干燥、无严重粉尘、无腐蚀性气体、易燃液体等
- 控制器及工具环境通风透气
- 电源及控制器必须确保可靠接地
- 控制器安装基板无震动、摇晃
- 控制器上不得放置其他物品
- 环境温度0~50℃、湿度20/90%非冷凝

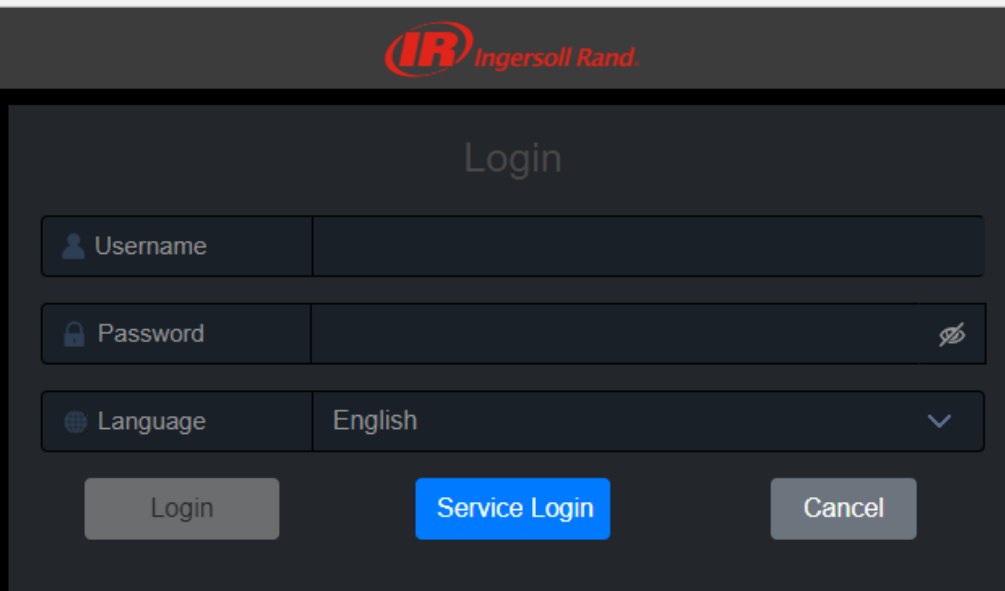
开机



使用浏览器访问QCXD 控制器

电脑IP设置修改为和控制器同一网段，在浏览器输入控制器的IP地址

10.192.112.198/#/login

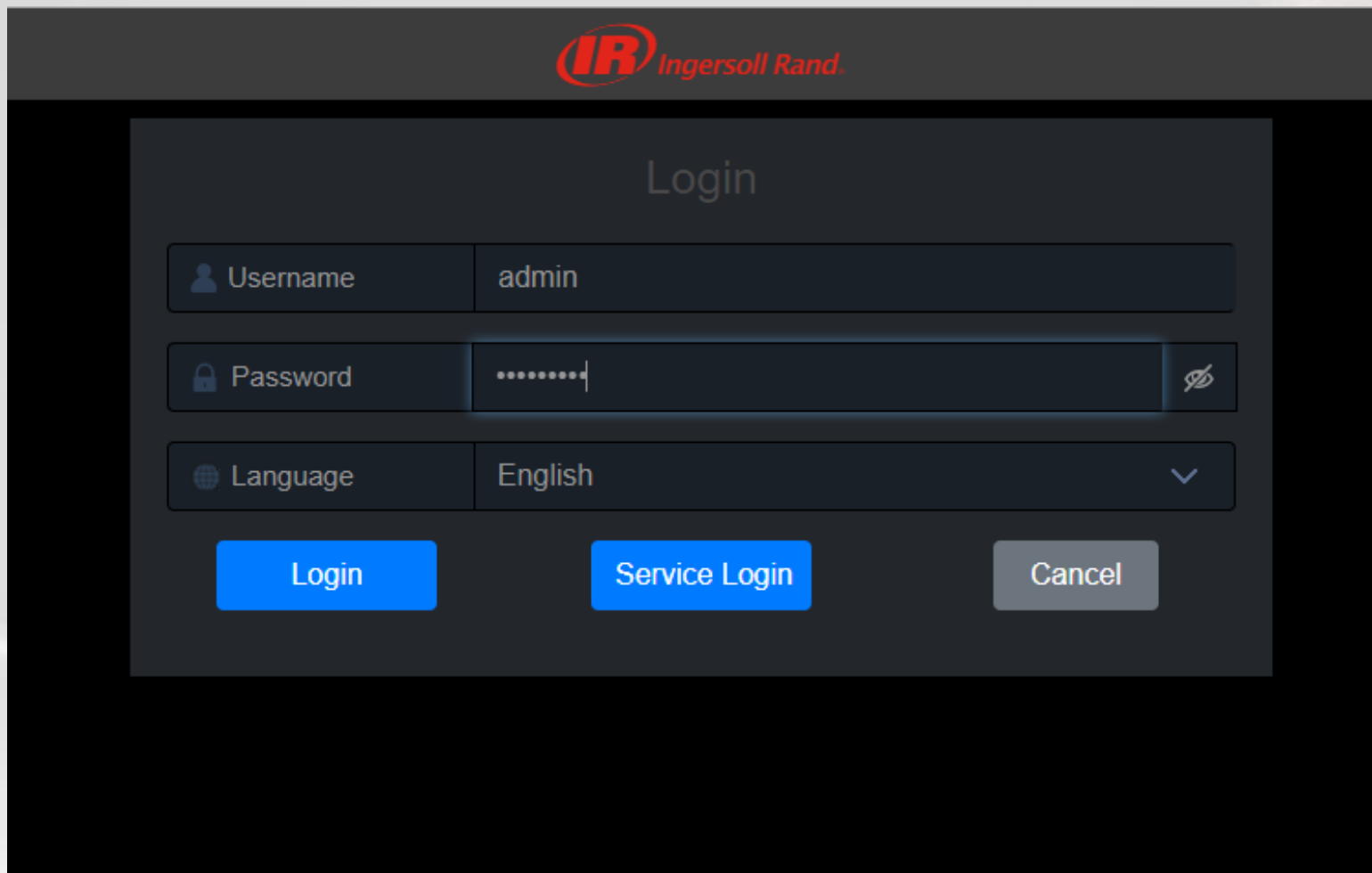


The image shows the login interface of an Ingersoll Rand QCXD controller. At the top, the Ingersoll Rand logo is displayed. Below it, the word "Login" is centered. The login form consists of three input fields: "Username" with a user icon, "Password" with a lock icon and a toggle for visibility, and "Language" with a globe icon and a dropdown menu currently set to "English". At the bottom of the form are three buttons: "Login" (disabled), "Service Login" (active/highlighted in blue), and "Cancel".

* CTRL + F5 刷新、清理缓存 arp -d 192.168.X.X删除指定的 IP 地址项

登录:使用默认用户名和密码

用户名:admin 密码:sollinger

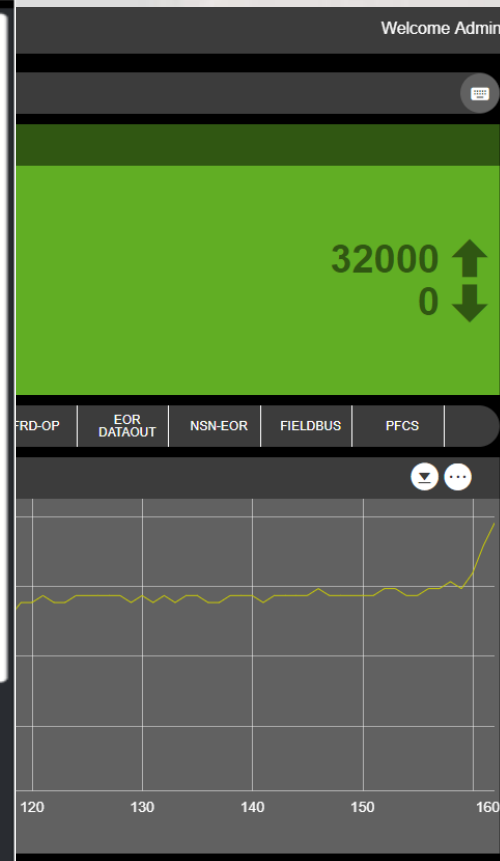
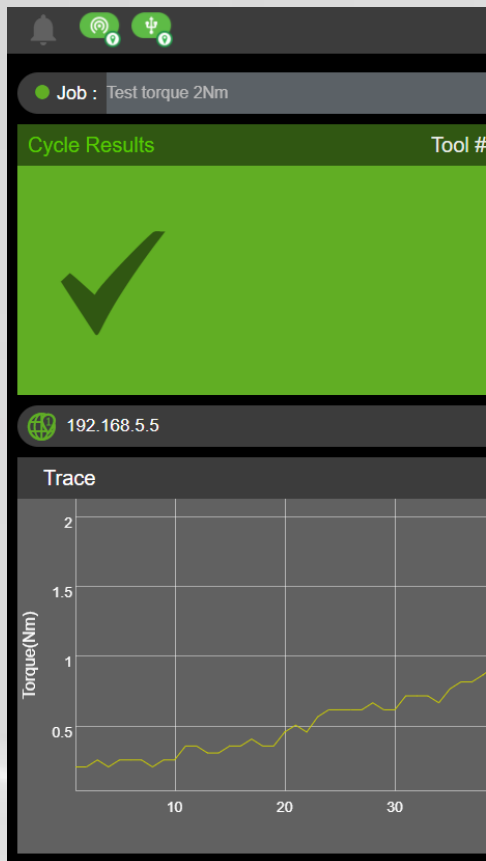


The image shows a login interface for Ingersoll Rand. At the top, the Ingersoll Rand logo is displayed. Below it, the word "Login" is centered. There are three input fields: "Username" with the value "admin", "Password" with masked characters ".....", and "Language" with the value "English". Below the input fields are three buttons: "Login", "Service Login", and "Cancel".

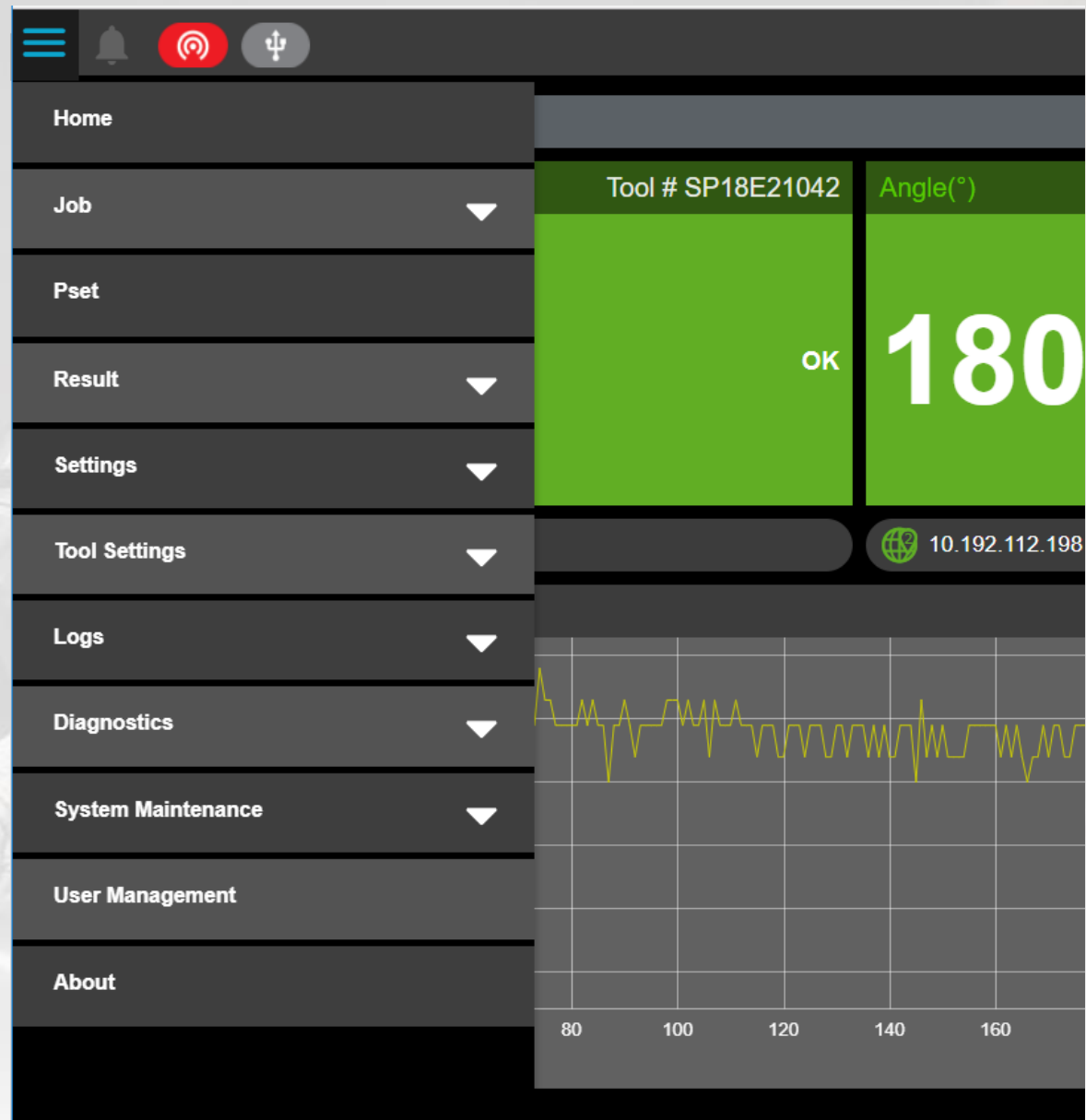
Field	Value
Username	admin
Password	
Language	English

Buttons: Login, Service Login, Cancel

主登录界面

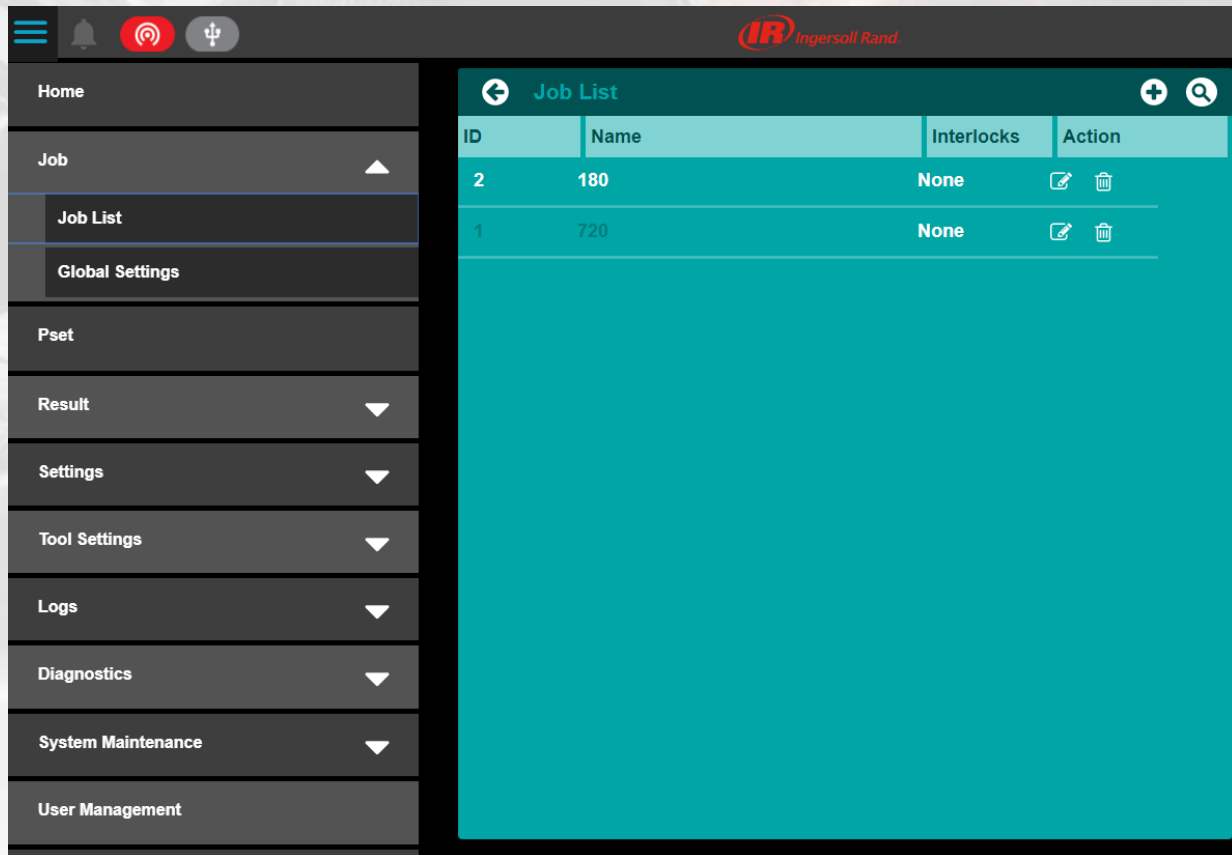


主菜单 Menu

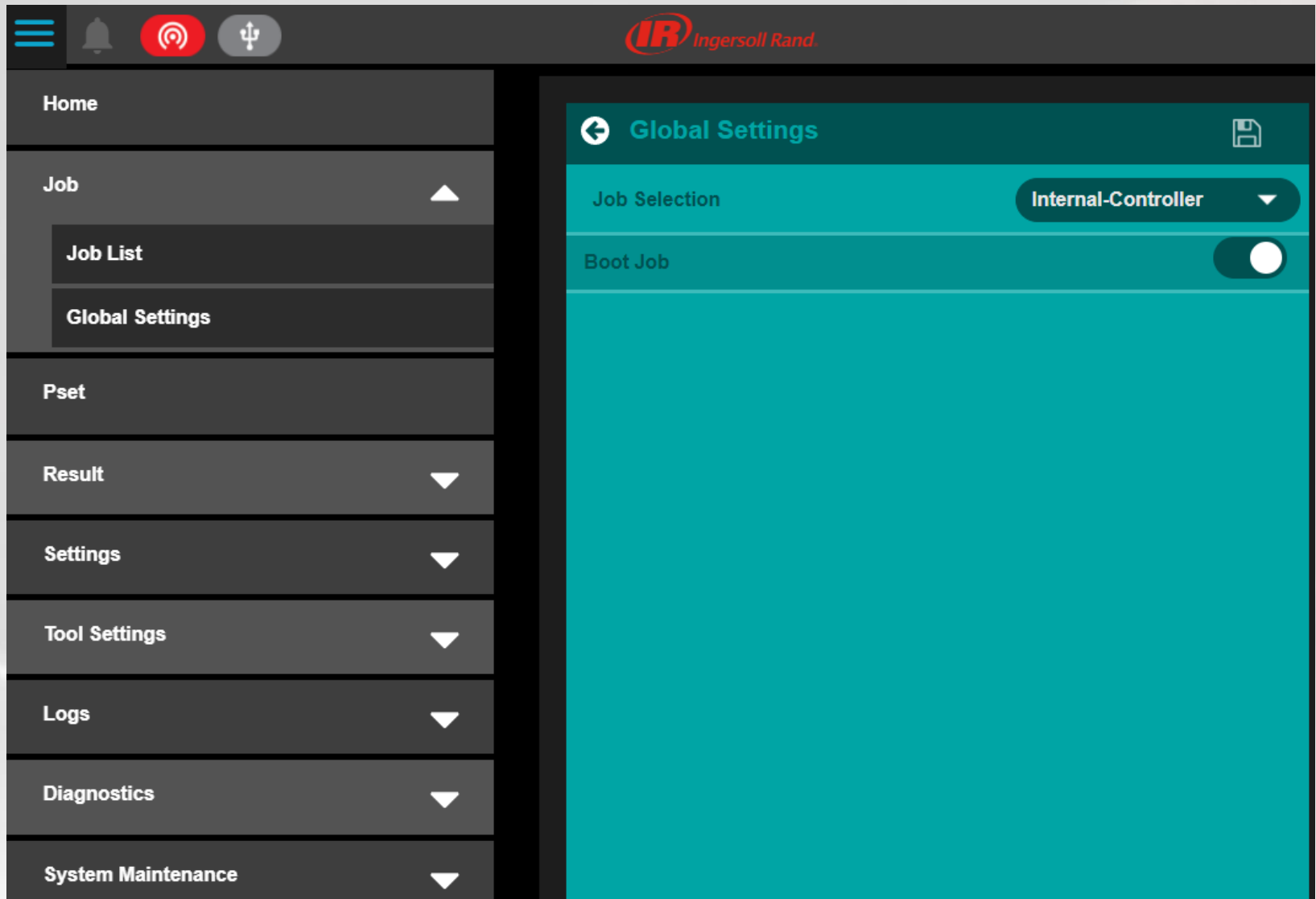


Job Setup

- JOB设置只针对已经匹配本台控制器的工具才有效
- Pset, 只针对没有配对本台QCXD的其他工具才可以, 在工具键盘上选择的是对应的Pset



Global Settings



Global Settings - Job Selection

 **Global Settings** 

Job Selection	Internal-Controller
Boot Job	Internal-Controller Internal-Display External - MES External - BCODE / VIN External - Discrete External - Discrete - Field Bus External - Binary External - Binary - Field Bus

内部控制器

工具显示屏

外部MES

外部条码/VIN码

外部模拟

外部模拟总线

外部二进制

外部二进制-总线

Pset setup

The screenshot shows the Ingersoll Rand Pset setup interface. The left sidebar contains the following navigation items: Home, Job, Pset (selected), Result, Settings, Tool Settings, Logs, Diagnostics, System Maintenance, User Management, and About. The main area displays a table of Pset configurations.

ID	Pset	Action
2	180	
1	720	

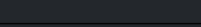
Cycle Result

</

Job Result





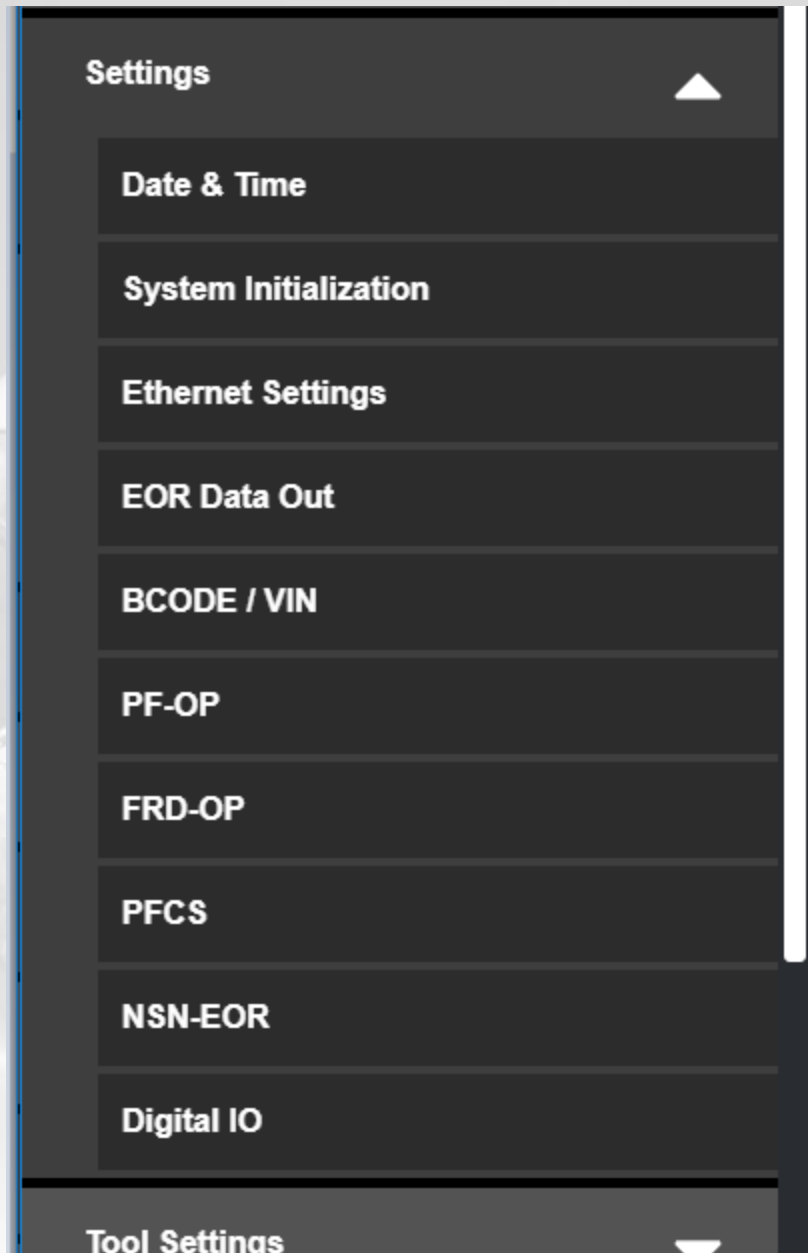


Home							
Job ▼							
Pset		Cycle Number	Job Id	Job Name	Date		
Result ▲			2	180	29/11/2019 03:		
Cycle Results			2	180	29/11/2019 03:		
Job Results			2	180	29/11/2019 01:	Export to CSV 	
Settings ▼			2	180	28/11/2019 09:	Pass failure mode	
Tool Settings ▼			2	180	28/11/2019 09:		
Logs ▼			2	180	28/11/2019 09:		
Diagnostics ▼			2	180	28/11/2019 09:		
		112	2	180	28/11/2019 09:51:24 AM	0	
		111	2	180	28/11/2019 09:51:20 AM	0	
		110	2	180	28/11/2019 09:51:18 AM	0	
		109	2	180	28/11/2019 09:51:16 AM	0	
		108	2	180	28/11/2019 09:36:46 AM	0	

1 - 100 of 117 items

<
1
2
>

Setting 设置菜单



System Initialization 系统参数设置

System Initialization

Plant Name

Plant name

Assembly Line

AssemblyName

Station Name

StationName

Application Name

Job

Language

English

Rows per Page

100

Detect Controller

Factory Reset

Ethernet Setting 以太网端口设置

Ethernet Settings

Port 1 Settings

Link Status

Speed

Network Type

Static

IP Address

192.168.5.5

Subnet Mask

255.255.255.0

Gateway

192.168.5.1

Primary DNS

Secondary DNS

Port 2 Settings

Link Status

Speed

100 Mbps

Network Type

DHCP

EOR Data Out 拧紧数据输出设置

EOR Data Out

Enable

Enable Logs

Select Source

ENET-EOR

Port #

1069

Controller ID

1

Delimiter

Comma (,)

End Of Record

Null

EOR Parameter Selection

EOR Parameters

☐ Select All

Reset Default EOR

↑

↓

☒ Cycle Number

☒ Power head Cycle Number

☒ Spindle Number

☒ Pset Number

☒ Date

☒ Time

☒ Cycle Result

☒ Peak Torque

☒ Torque Result

☒ Torque Units

☒ Peak Angle

☒ Angle Result

Apply

Cancel

22

Power Tools Technical Training

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Barcode Scanner Setting

The screenshot displays the Ingersoll Rand software interface. On the left is a sidebar menu with the following options: Date & Time, System Initialization, Ethernet Settings, EOR Data Out, **BCODE / VIN** (highlighted in blue), PF-OP, FRD-OP, PFCS, NSN-EOR, Digital IO, and Fieldbus. The main panel is titled 'BCODE / VIN' and contains the following settings:

- Enable BCODE / VIN: ☒
- Manual BCODE / VIN Entry: ☐
- Queue BCODE / VIN: ☐

A 'Warning' dialog box is overlaid on the settings, containing the following text:

Warning

By Enabling Tool Enable on Power-up following settings will be changed.

- Boot Job is disabled by default.
- Persist IO state on Disconnect is disabled by default.

Would you like to continue...?

The dialog has two buttons: 'Yes' (highlighted in blue) and 'No'.

Below the dialog, the following configuration fields are visible:

Field	Value
Controller Name	INSIGHTqcx
Port Number	4545
Retry Interval (sec)	5
Number of Retries	3

Open Protocol 开放协议相关设置

PFOP 

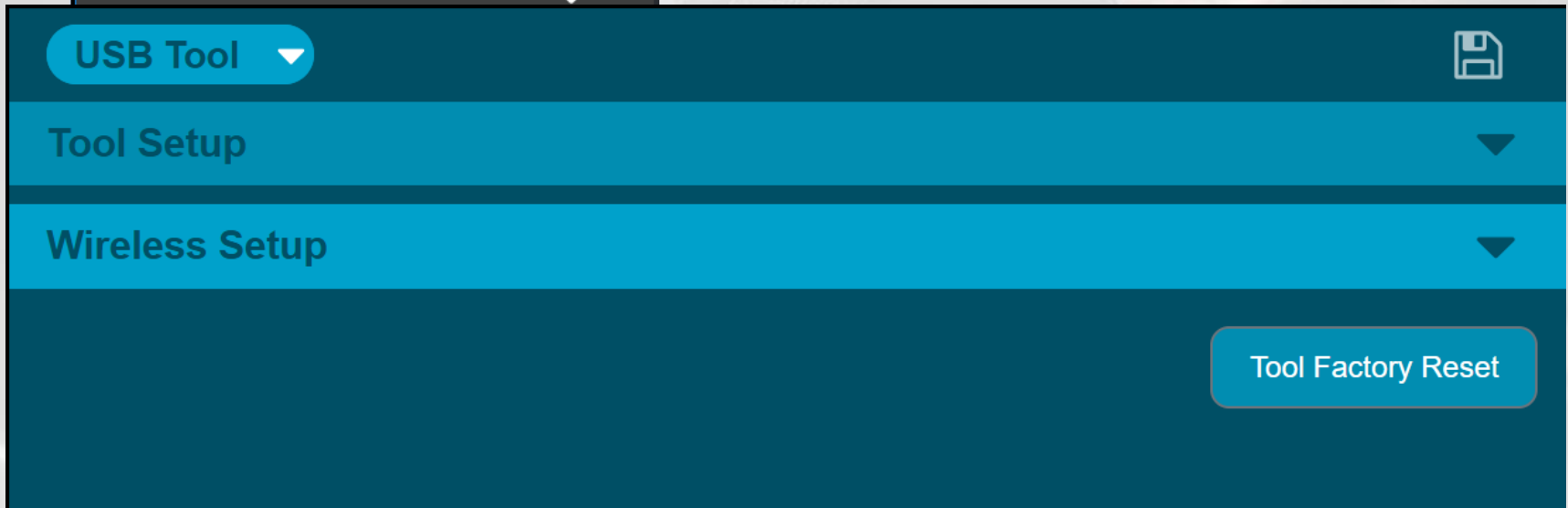
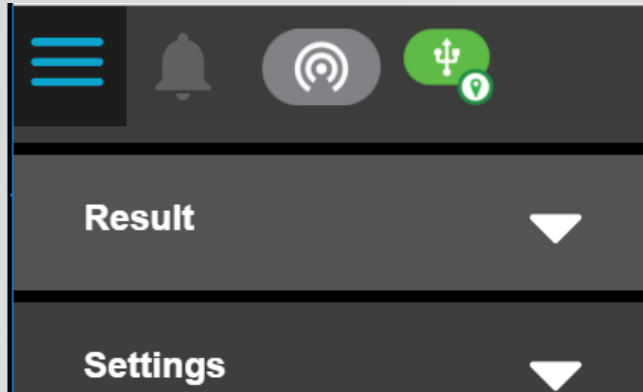
Enable Protocol	☒
Enable Logs	☒
PF-OP Version Information	10.9
Cell ID	0
Channel ID	0
Controller Name	InsightQX
Port Number	4545
Retry Interval (sec)	5
Number of Retries	3

Open Protocol 开放协议 福特专用版本

FRD-OP 

Enable Protocol	☒
Enable Logs	☒
FRD-OP Version Information	4.66
Cell ID	0
Channel ID	0
Controller Name	InsightQX
Port Number	4545
Retry Interval (sec)	5
Number of Retries	3

Tool Settings QX工具的相关设置



Tool General Setup



USB Tool 

Tool Setup 

Location ID	6
Buffer Size(bytes)	1200
Sleep Timeout(sec)	60
Headlight Timeout(sec)	5
Pset Selection Mode	Internal 
Invert Tool Led Output	☐
Simplified Tool Display	☐
Enable Buffering	☐
Enable Headlight	☒
Keypad Lockout	☐
Enable ETS	☐
Interlock Active	☐
Enable Smart Socket	☐

Password 

New password	 
Confirm Password	 

Wireless Setup 

Enable Wireless	☐
PAN ID	100
RF Channel	15 
Power Level	0 

Tool Factory Reset

Wireless Setup: 此处不能设置工具无线通讯参数

USB Tool ▼

Tool Setup ▼

Wireless Setup ▼

Enable Wireless

☒

PAN ID

51158

RF Channel

16

Power Level

4

Tool Factory Reset

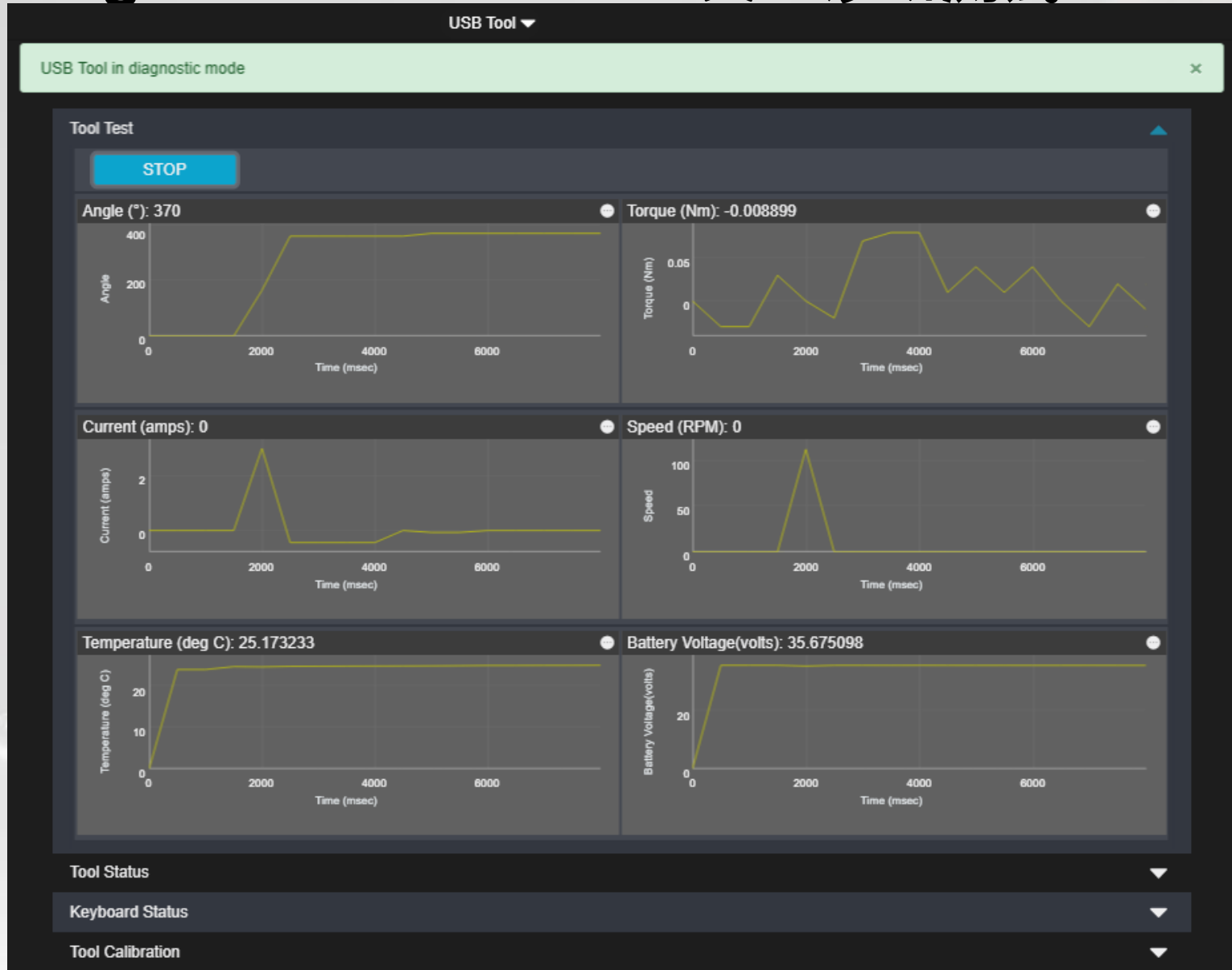
Wireless Diagnostics 无线信道的信号诊断

Wireless Diagnostics

Channel : 16

<i>TX Packets</i>	4597
<i>TX ACK Packets</i>	4600
<i>Failed TX Packets(%)</i>	-0.07%
<i>RX Packets</i>	4604
<i>RX ACK Packets</i>	4594
<i>Failed RX Packets(%)</i>	0.22%
<i>Dropped RX Packets</i>	0

Tool Diagnostics: Tool test 工具的诊断测试



Tool Status 工具的状态数据

USB Tool ▼

USB Tool in diagnostic mode ×

Tool Test ▼

Tool Status ▲

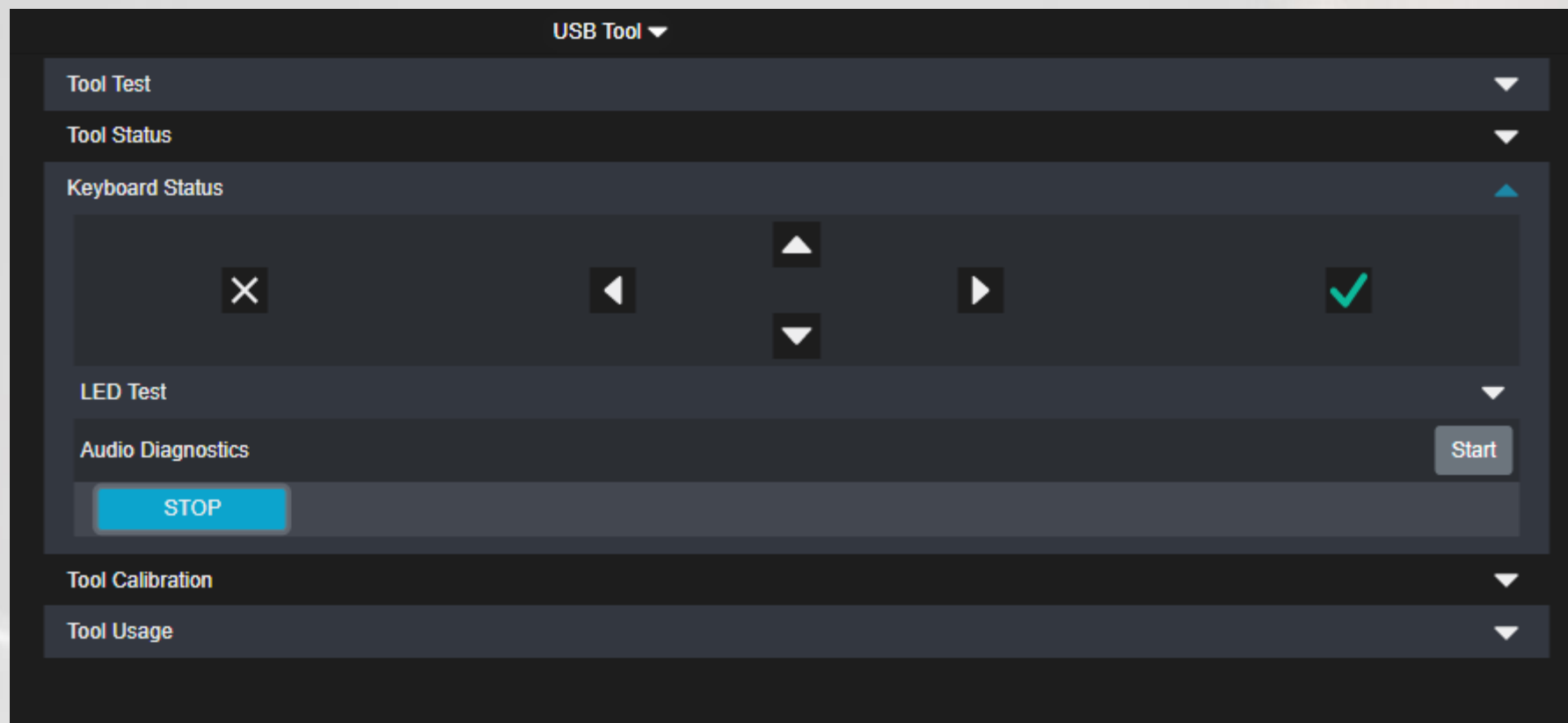
Direction Status 	Trigger Status 	Headlight Status 
Current Phase U Offset	2037	
Current Phase W Offset	2040	
Torque Signal 0 Offset	2064	
Motor Temperature (° C)	26.166061	
Battery Voltage(volts)	35.689541	
Shunt Calibration	2.100212	
STOP		

Keyboard Status ▼

Tool Calibration ▼

Tool Usage ▼

KeyBoard Status 工具键盘状态诊断



Calibration Data 工具的校准数据

USB Tool ▾

Calibration Data

TR

Reset

Set

Factory Value

104.267876

Current Value

104.267876

New Value

ASC

Reset

Set

Factory Value

0.618

Current Value

0.618

New Value

Gearbox Loss (%)

0.00

>

Calibration Result

Current TR : 104.267876

Calibration Settings

Auto

☒

Manual

Cycle #

From Tool

Measured Reading

Reject Reading

Start

Resultant TR Value

>

Tool Usage 工具的使用次数

USB Tool ▼

Tool Test ▼

Tool Status ▼

Keyboard Status ▼

Tool Calibration ▼

Tool Usage ▲

Pulse Count	191
Lifetime cycle count	77
Refresh	

Logs 控制器日志



Welcome

Result ▼

Settings ▼

Tool Settings ▼

Logs ▲

Audit LogEvent LogSystem Logs

Download ↕

	User Name	Description	Field
53 AM	Admin	User Logged in	
37 AM	Admin	User Logged in	
35 AM	Admin	Application version	Firmware L
33 AM	Admin	Application version	Firmware Up Please do not r the
31 AM	Admin	User Logged in	

Audit Log 控制器的关键操作日志

[Home](#) | [Logs](#) | [Audit Log](#)

[Download](#)

Date Time	User Name	Description	Field Modified	New Value	Old Value
16/12/2019 10:33 AM	Admin	Job created	Job Name	Test torque 2Nm	-
16/12/2019 10:33 AM	Admin	Pset created	Pset Name	Test torque 2Nm	-
16/12/2019 10:26 AM	Admin	User Logged in	-	-	-
16/12/2019 7:50 AM	Admin	Job created	Job Name	Test Angle 360	-
16/12/2019 7:40 AM	Admin	Pset created	Pset Name	Test 360 degree	-
16/12/2019 6:58 AM	Admin	Tool Pair Settings	Power Level	4	2
16/12/2019 6:58 AM	Admin	Tool Pair Settings	RF Channel	16	14
16/12/2019 6:44 AM	Admin	Reset default accounts password	Password	*****	*****
16/12/2019 6:42 AM	Admin	User Logged in	-	-	-
16/12/2019 6:33 AM	Admin	Factory Reset Initiated	Factory Reset	Pass	-

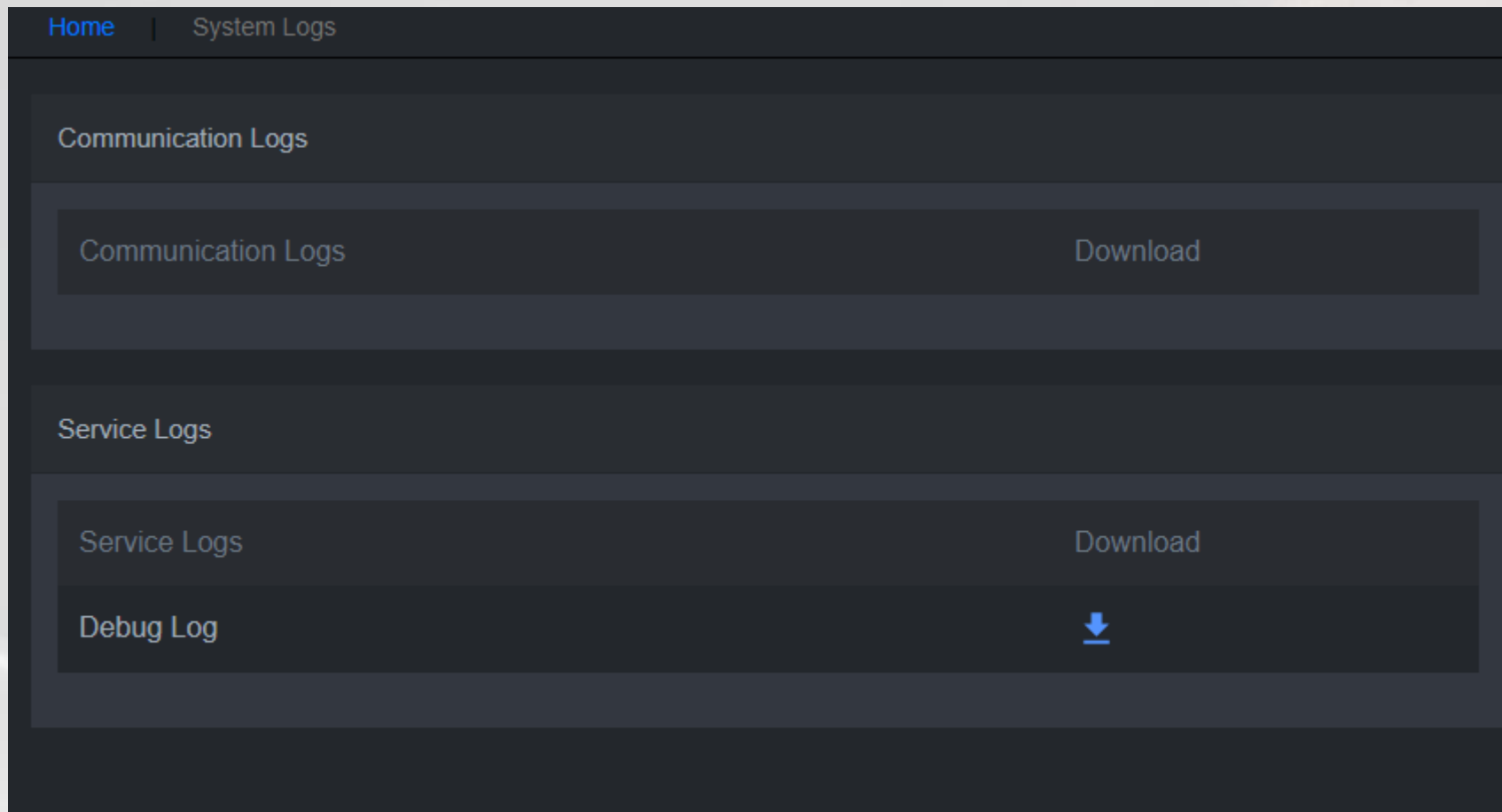
1 - 10 of 10 items

< 1 >

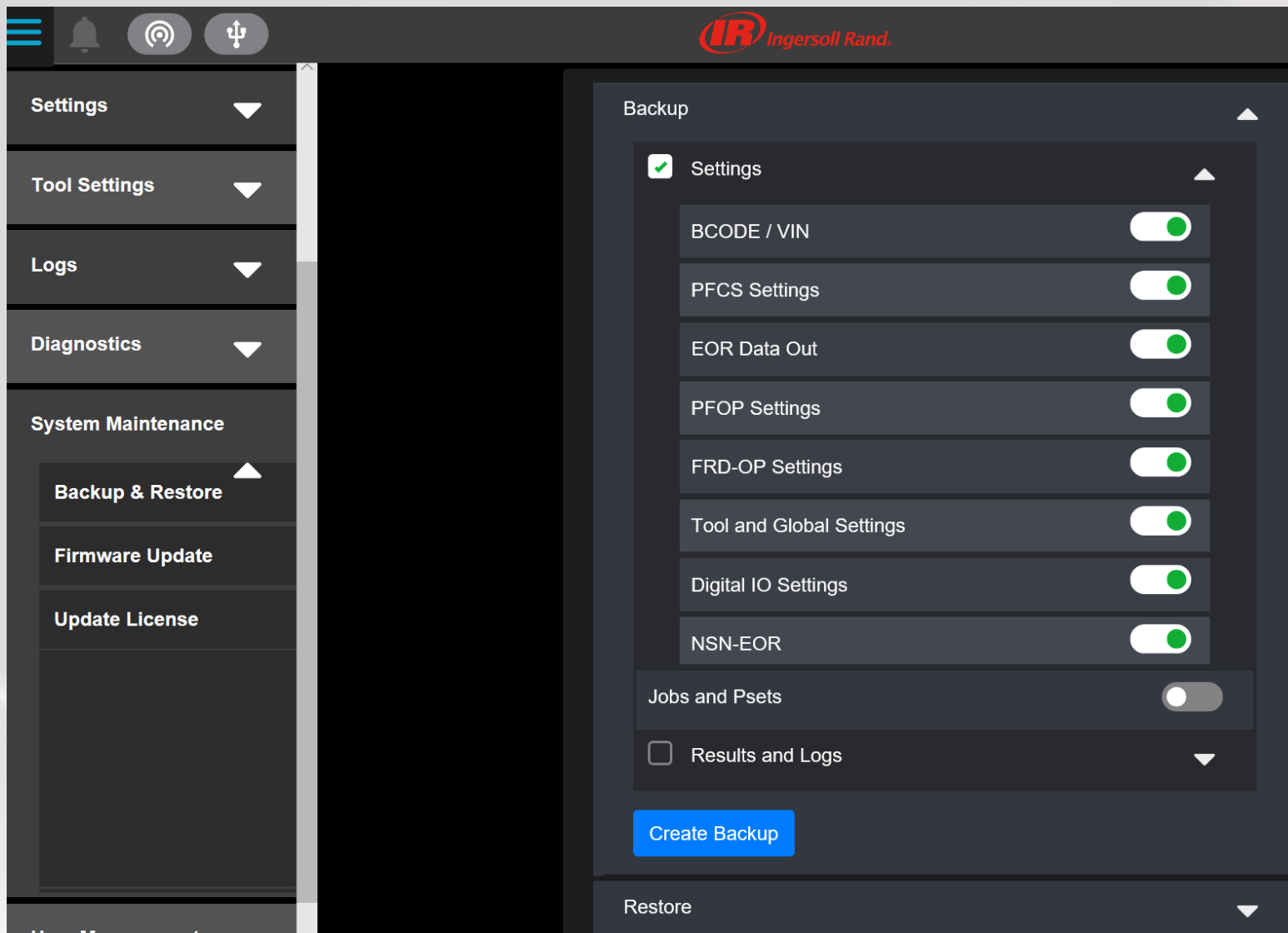
Event Log 控制器的事件记录

Home Event Logs			Download
Date and Time	Event Code	Description	
16/12/2019 10:33:54 AM	503	Job Created Successfully	
16/12/2019 10:33:18 AM	502	Pset Created Successfully	
16/12/2019 08:52:09 AM	526	Session Timeout	
16/12/2019 07:50:36 AM	503	Job Created Successfully	
16/12/2019 07:40:12 AM	502	Pset Created Successfully	
16/12/2019 06:58:58 AM	302	Tool Connected	
16/12/2019 06:58:50 AM	300	Pairing initiated	
16/12/2019 06:58:50 AM	507	Controller Radio Setting Change Successfully	
16/12/2019 06:57:41 AM	311	USB Tool connected	
16/12/2019 06:57:31 AM	312	USB Tool Disconnected	
1 - 16 of 16 items			< 1 >

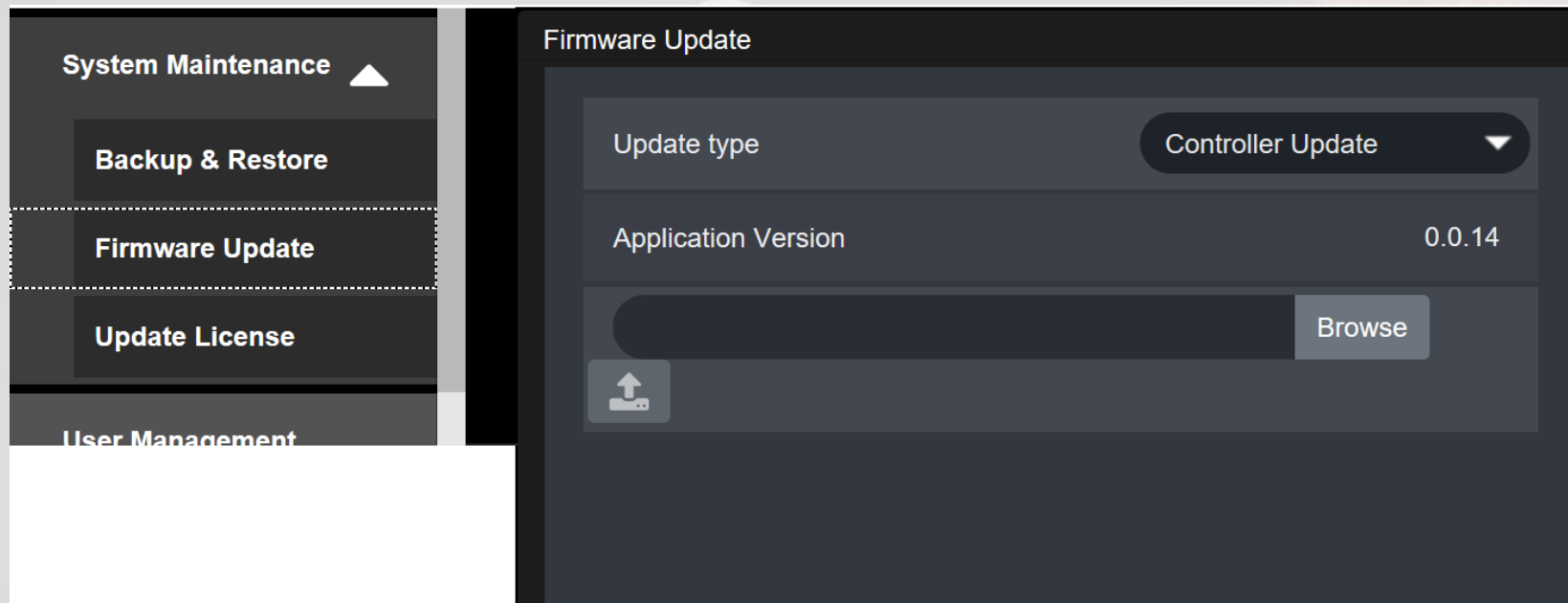
System Logs 系统相关日志



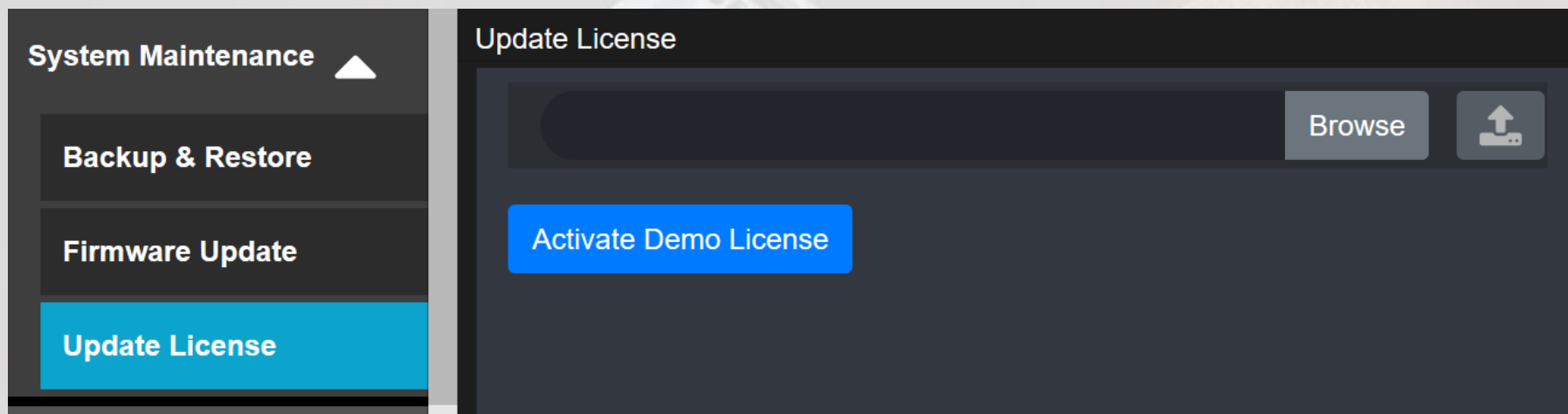
系统维护菜单



系统软件升级



授权文件更新



Create User 创建新用户

[Home](#) | [User List](#)

[Create User](#) [Controller Settings](#)

User Name	Alias Name	First Name	Last Name	Role	Timeout	Action
admin	Admin	Admin	Admin	admin	30	

Create New User 创建新用户的内容

 Create User 

First Name	
Last Name	
User Name	
Alias Name	
Password	
Confirm Password	
User Role	Administrator 
Session Timeout	Administrator Operator Supervisor Viewer

控制器信息及匹配工具的软件版本



[Home](#) | [About](#)

Controller Information

Model	QCXD11-FM
Serial Number	K19E00127
Controller Radio MAC Address	00:00:00:02:31:22:C7:D6

Controller Version Information

Application Version	0.0.14
Database Version	0.0.4
OS Version	0.0.1
Radio Version	03.37

Tool Version Information

Tool Display Version	100.0.0.7
Tool MCE Version	2.4.0.14
Tool Radio Version	0.0.103.37

License Information

控制器硬盘编号及授权等级

License Information

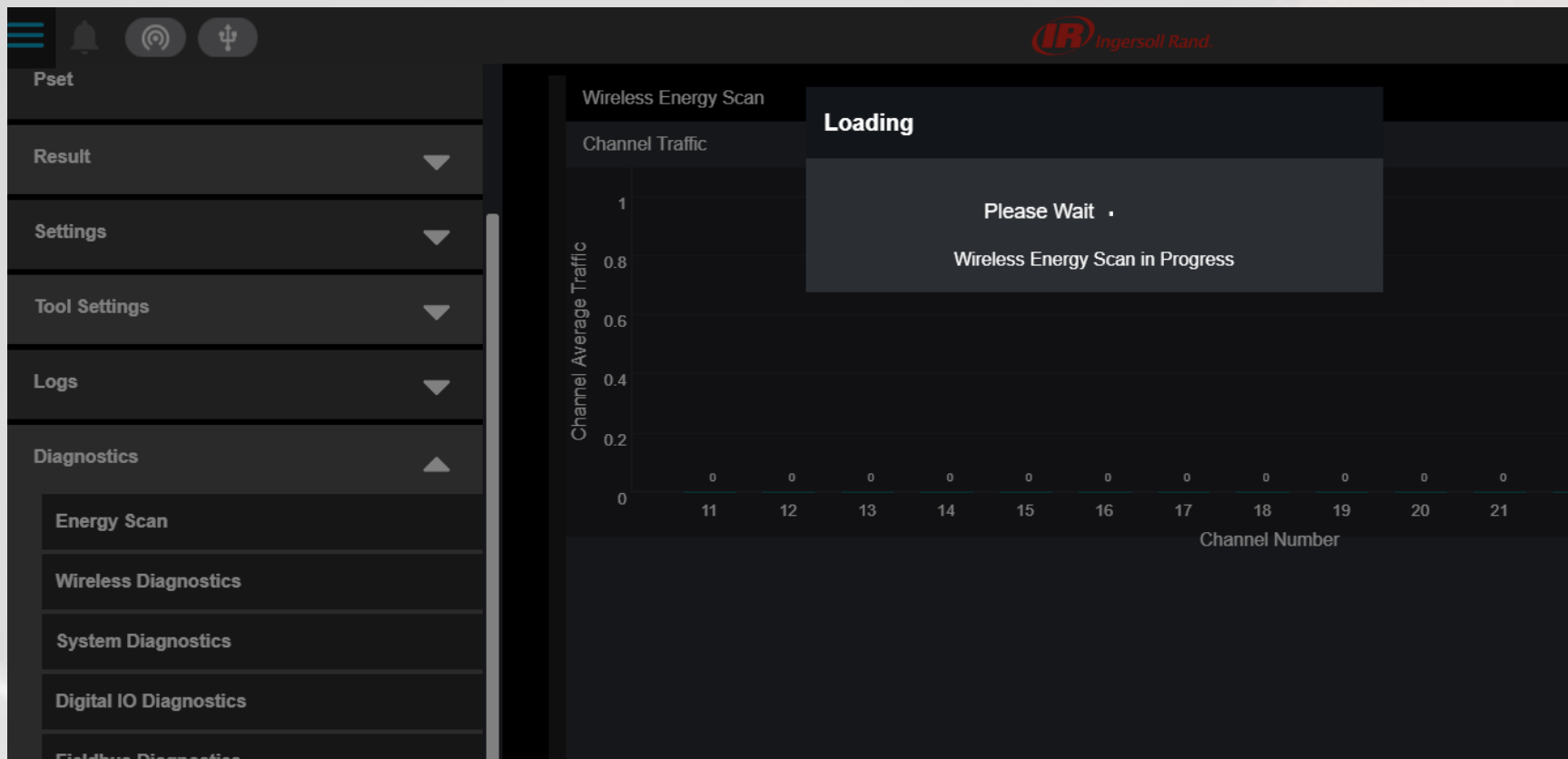
This product is licensed to

SATA ID	182848400060
License type	Advanced
Creation Date	10/24/2019
Remaining hours to expire	No expiry

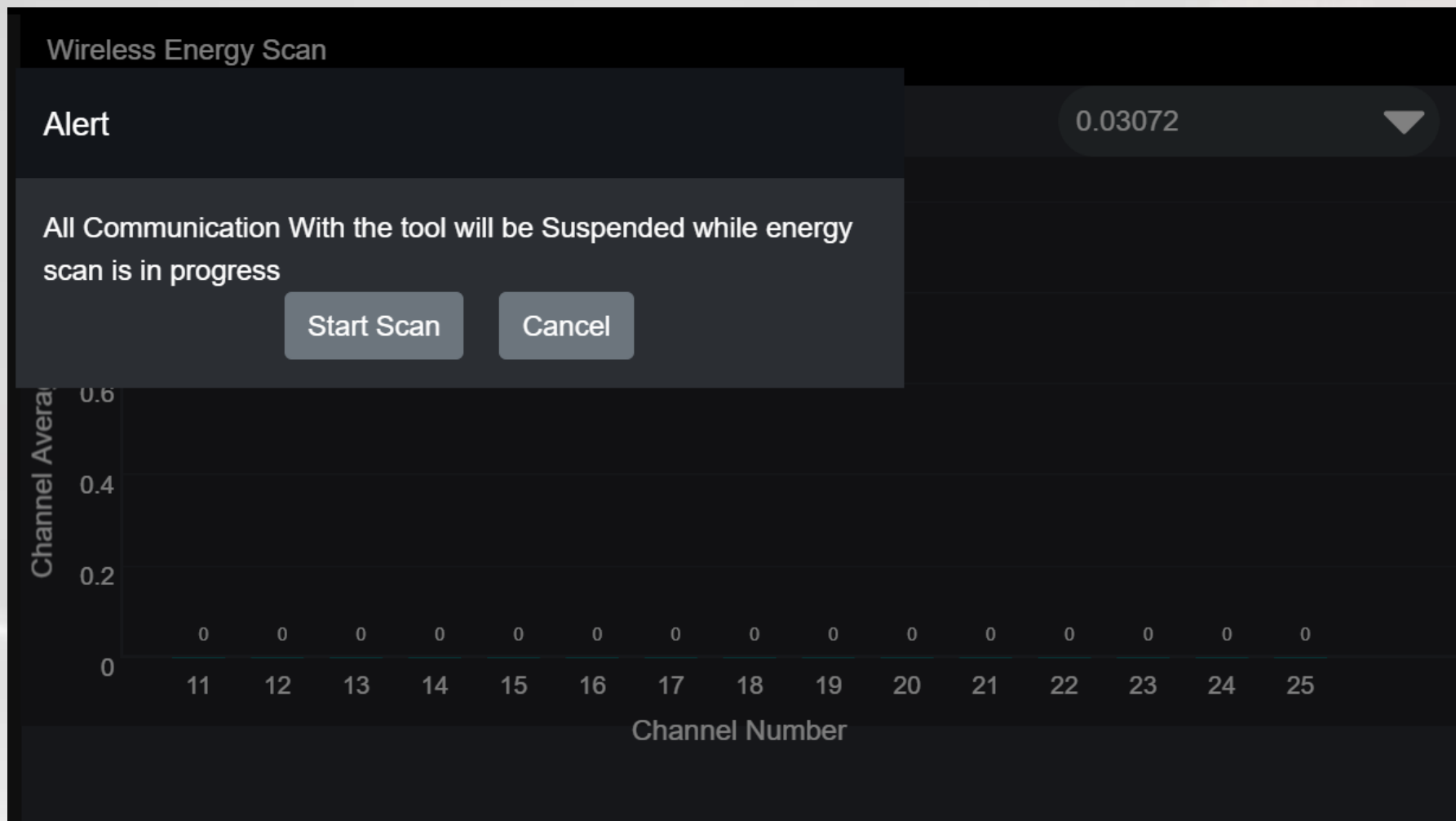
Features Enabled

- About
- Logs - Audit Log
- System Maintenance - Backup and Restore
- Settings - BCODE / VIN
- Digital IO

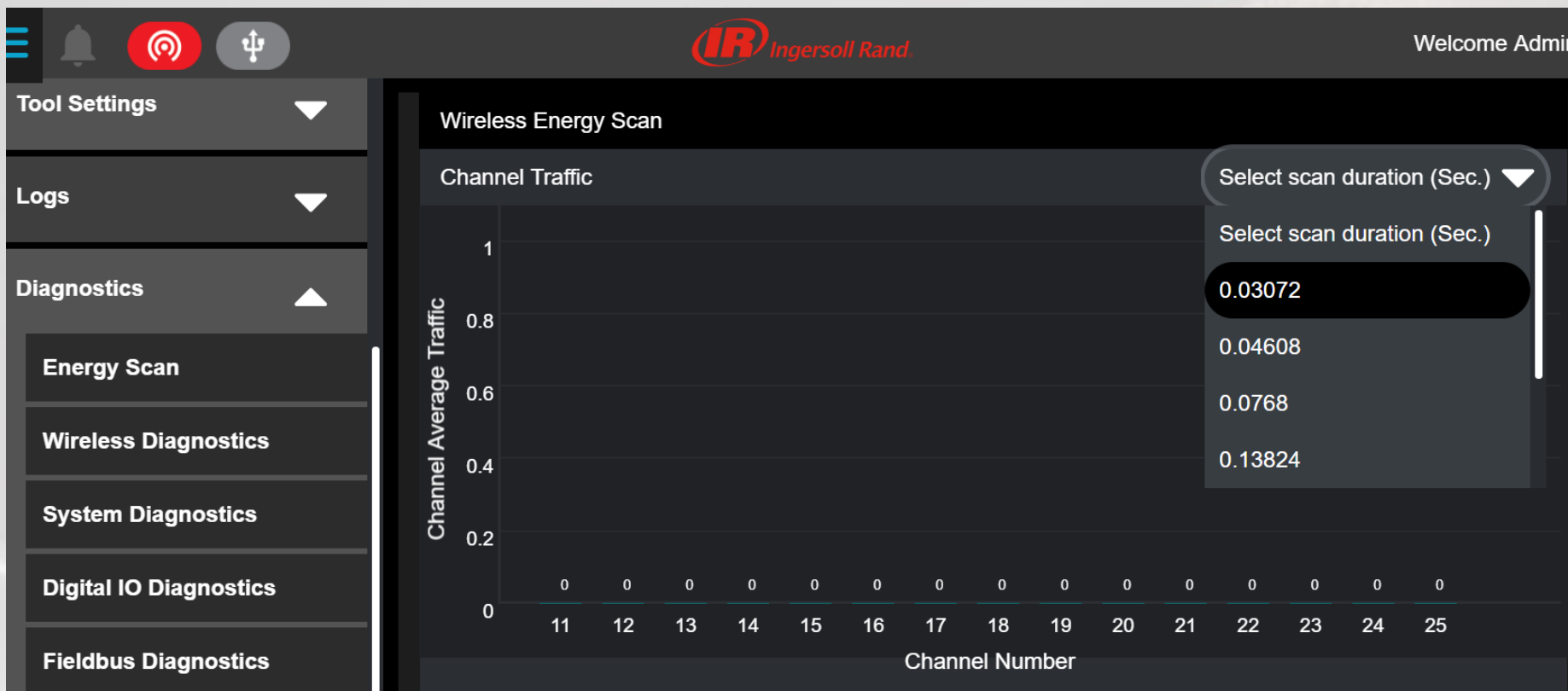
无线信道信号诊断



无线信道信号诊断



无线信道信号诊断：扫描时间的选择



信道信号扫描结果



无线信号诊断

- 只针对已经匹配本台控制器的工具
- 诊断显示选定信道的收发信号记录

Tool Settings

Logs

Diagnostics

Energy Scan

Wireless Diagnostics

System Diagnostics

Digital IO Diagnostics

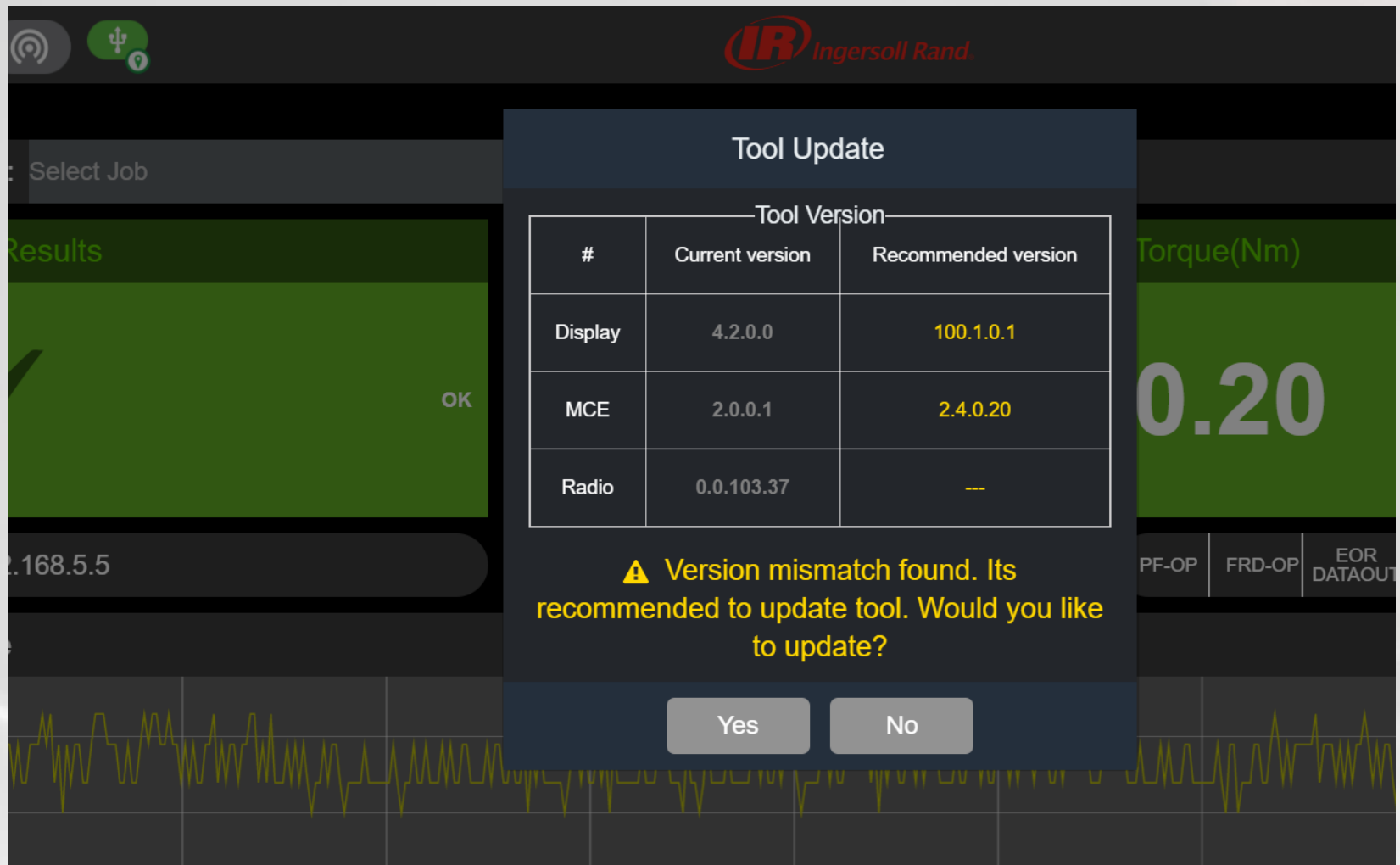
Fieldbus Diagnostics

Wireless Diagnostics

Channel : 14

<i>TX Packets</i>	7521
<i>TX ACK Packets</i>	0
<i>Failed TX Packets(%)</i>	100.00%
<i>RX Packets</i>	0
<i>RX ACK Packets</i>	0
<i>Failed RX Packets(%)</i>	NaN%
<i>Dropped RX Packets</i>	0

无线工具匹配：软件版本核验



匹配软件版本

- 如果待匹配的工具软件版本很低，需要用ICS先升级到较高版本 Display 3.x.x 以上

Tool Update

#	Tool Version	
	Current version	Recommended version
Display	3.1.3.0	100.1.0.1
MCE	1.1.4.1	2.4.0.20
Radio	0.0.2.6	---

⚠ Version mismatch found. Its recommended to update tool. Would you like to update?

Yes

No

升级软件版本

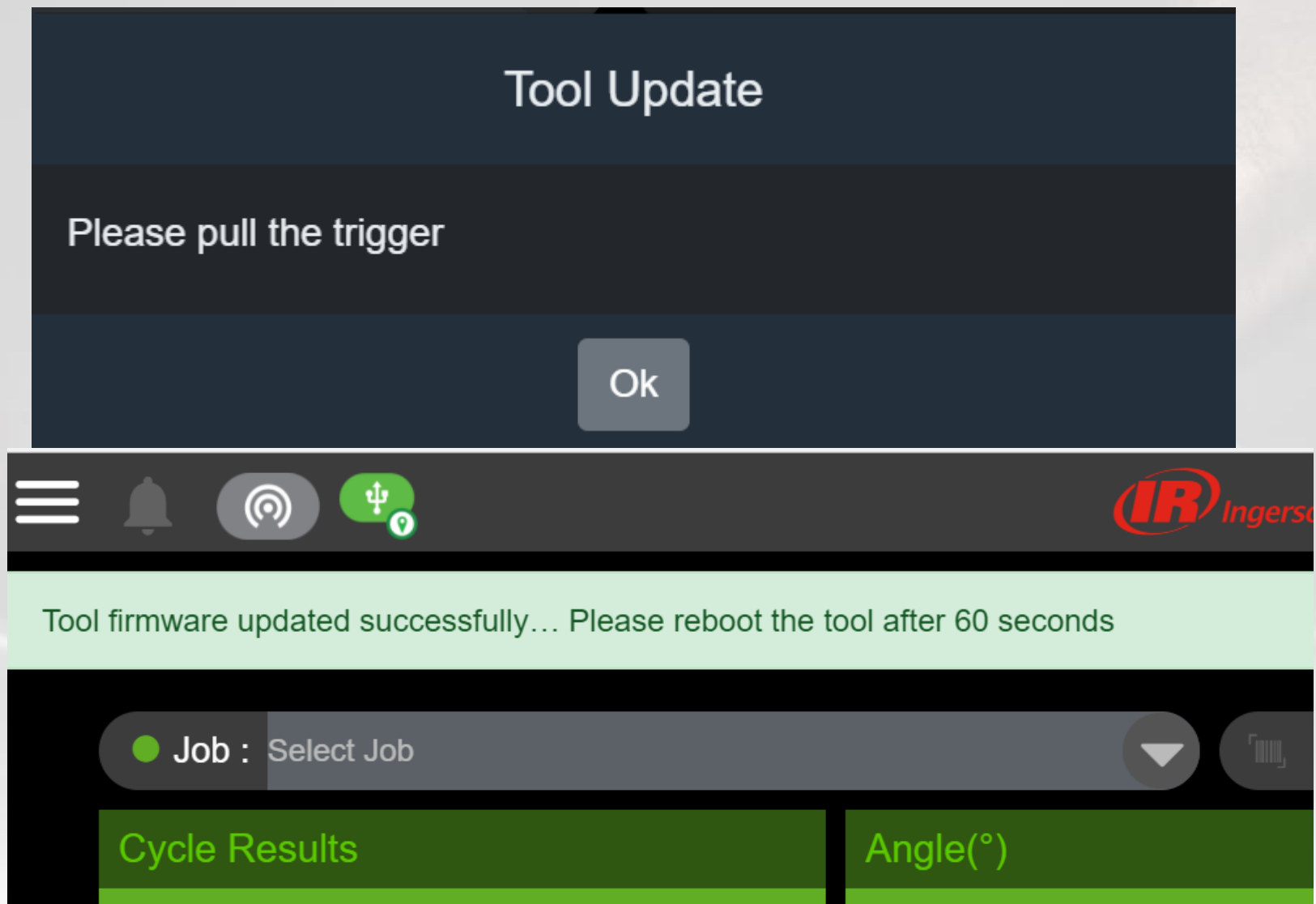
Tool Update

#	Tool Version	
	Current version	Recommended version
Display	3.1.3.0	100.1.0.1
MCE	1.1.4.1	2.4.0.20
Radio	0.0.2.6	---

MCE Firmware update in progress. Please do not refresh or navigate page

19 %

升级MCE软件：关键步骤



MCE软件升级成功，提示升级Display

Tool Update

#	Tool Version	
	Current version	Recommended version
Display	3.1.3.0	100.1.0.1
MCE	2.4.0.20	2.4.0.20
Radio	0.0.2.6	---

⚠ Version mismatch found. Its recommended to update tool. Would you like to update?

Yes

No

升级Display软件过程

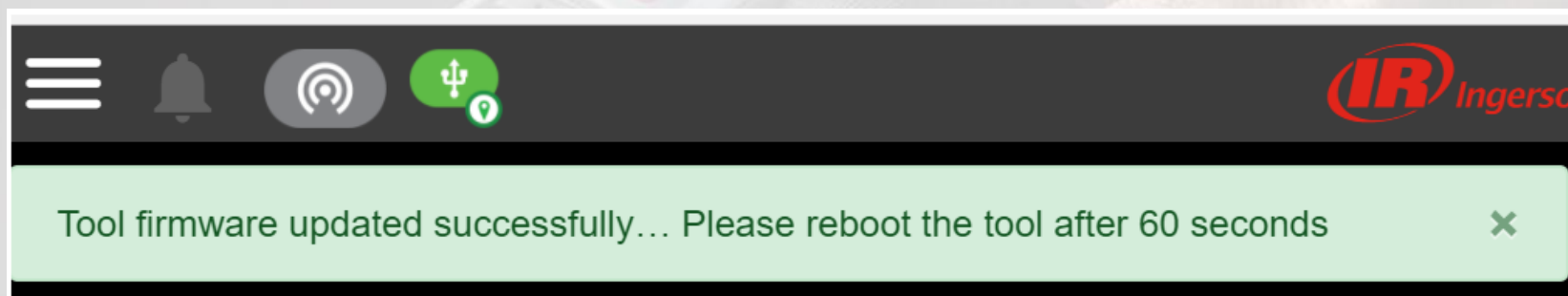
Tool Update

#	Tool Version	
	Current version	Recommended version
Display	3.1.3.0	100.1.0.1
MCE	2.4.0.20	2.4.0.20
Radio	0.0.2.6	---

Display Firmware update in progress. Please do not refresh or navigate page

29 %

升级Display完成



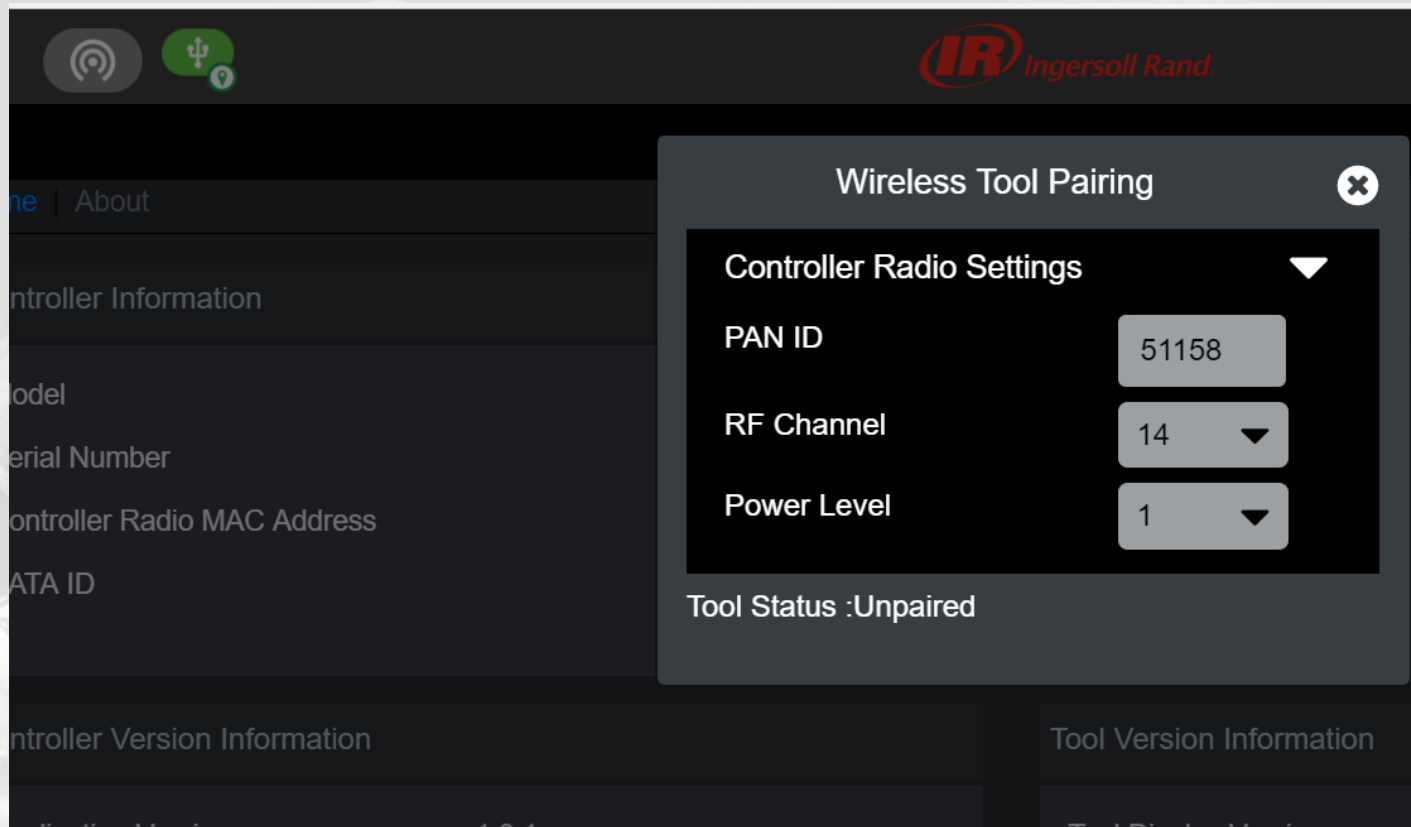
升级完成，软件版本一致

- QX工具软件升级完成之后，需要恢复出厂设置
- 主菜单-> Tool Settings-> Factory Reset

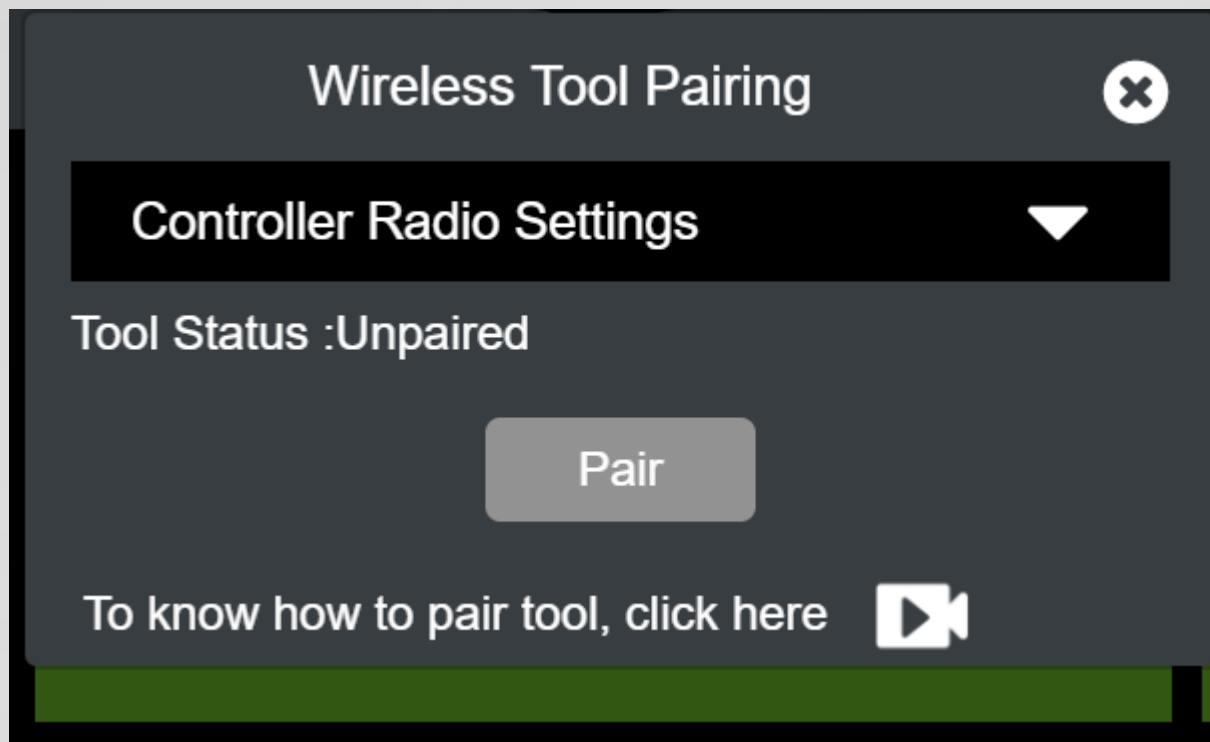
USB Tool Info		
Tool Version		
#	Current version	Recommended version
Display	100.1.0.1	100.1.0.1
MCE	2.4.0.20	2.4.0.20
Radio	0.0.103.37	---

修改无线参数设置

- 此处只可以修改和这台QCXD待配对的工具的无线信道和发射功率设置
- PAN ID在此处不能修改



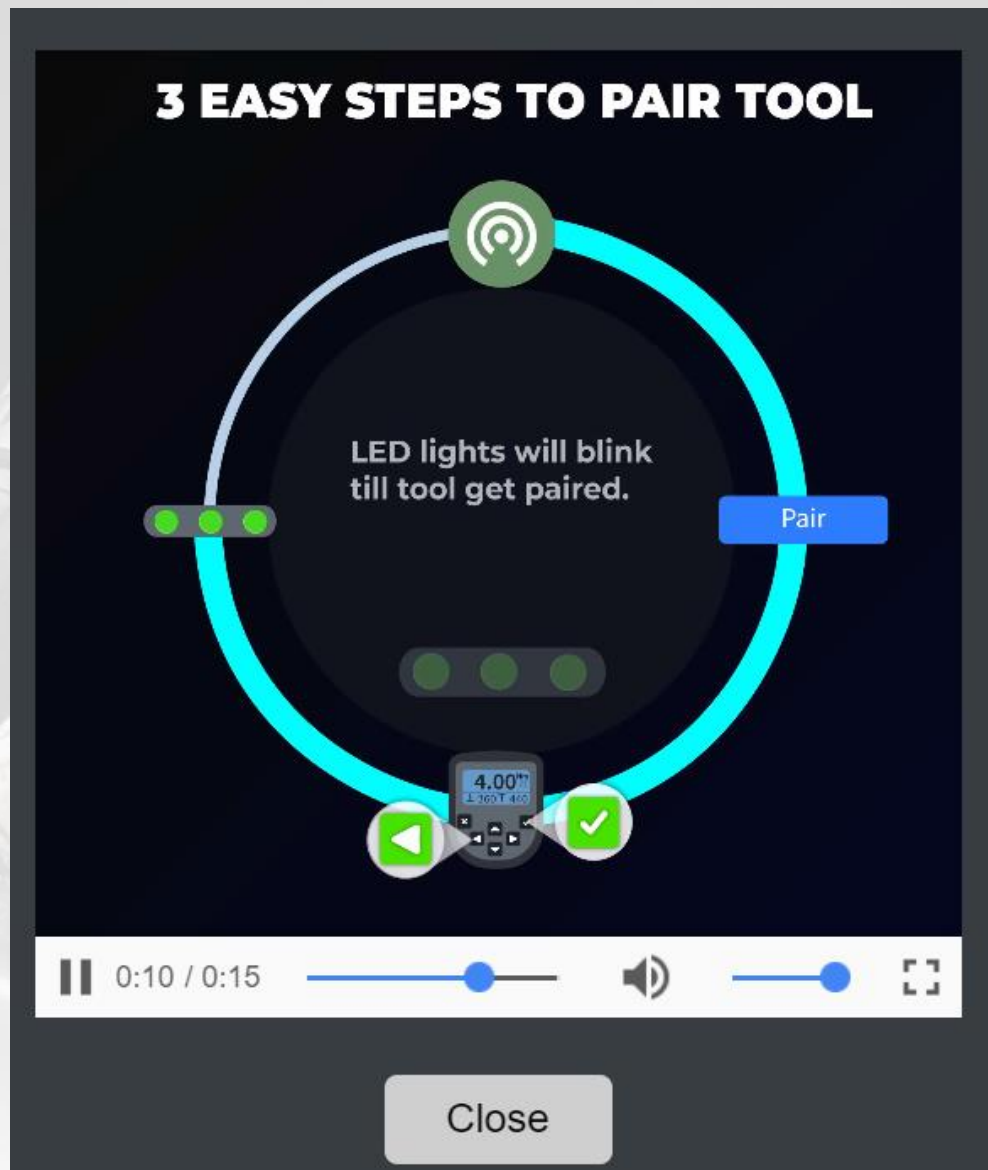
匹配QXX工具



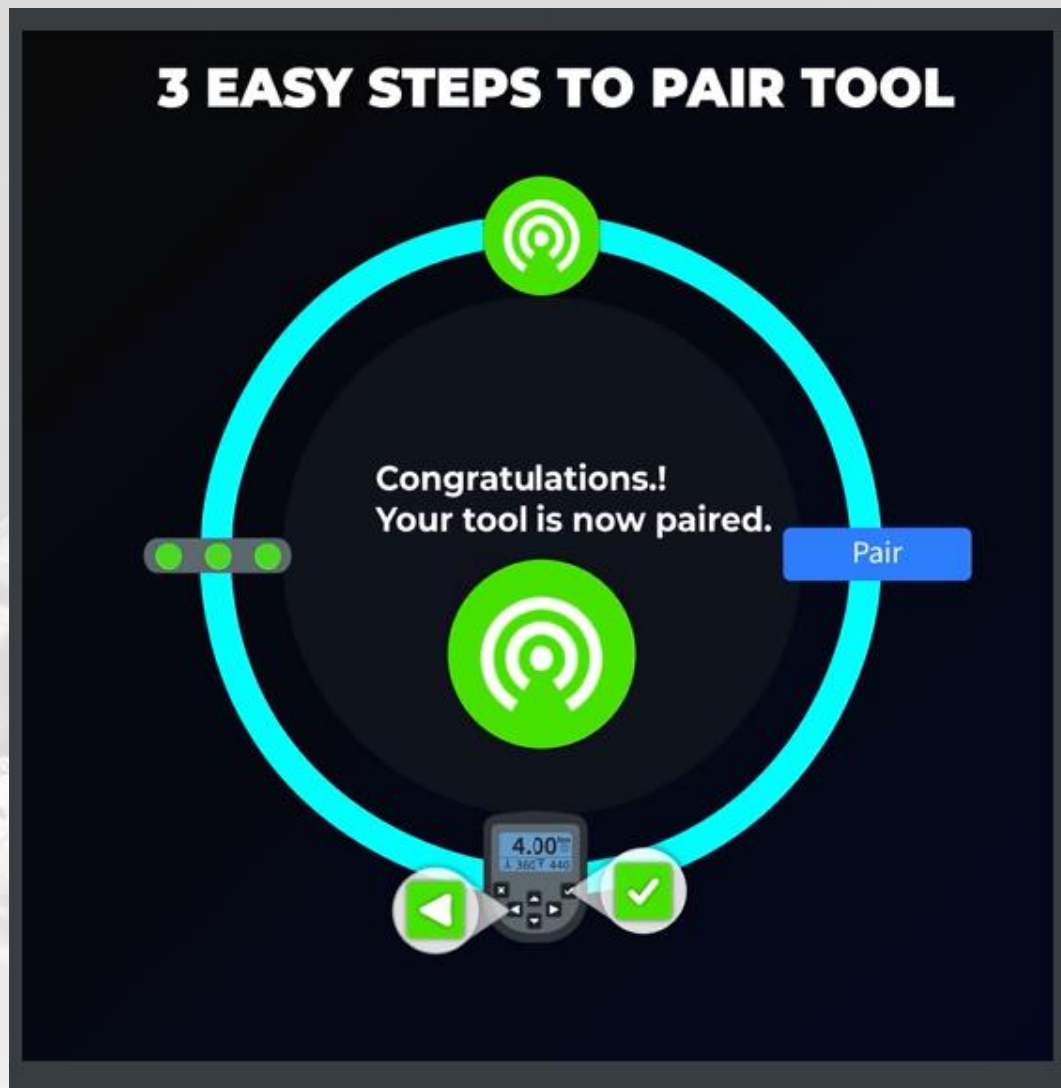
正在匹配...



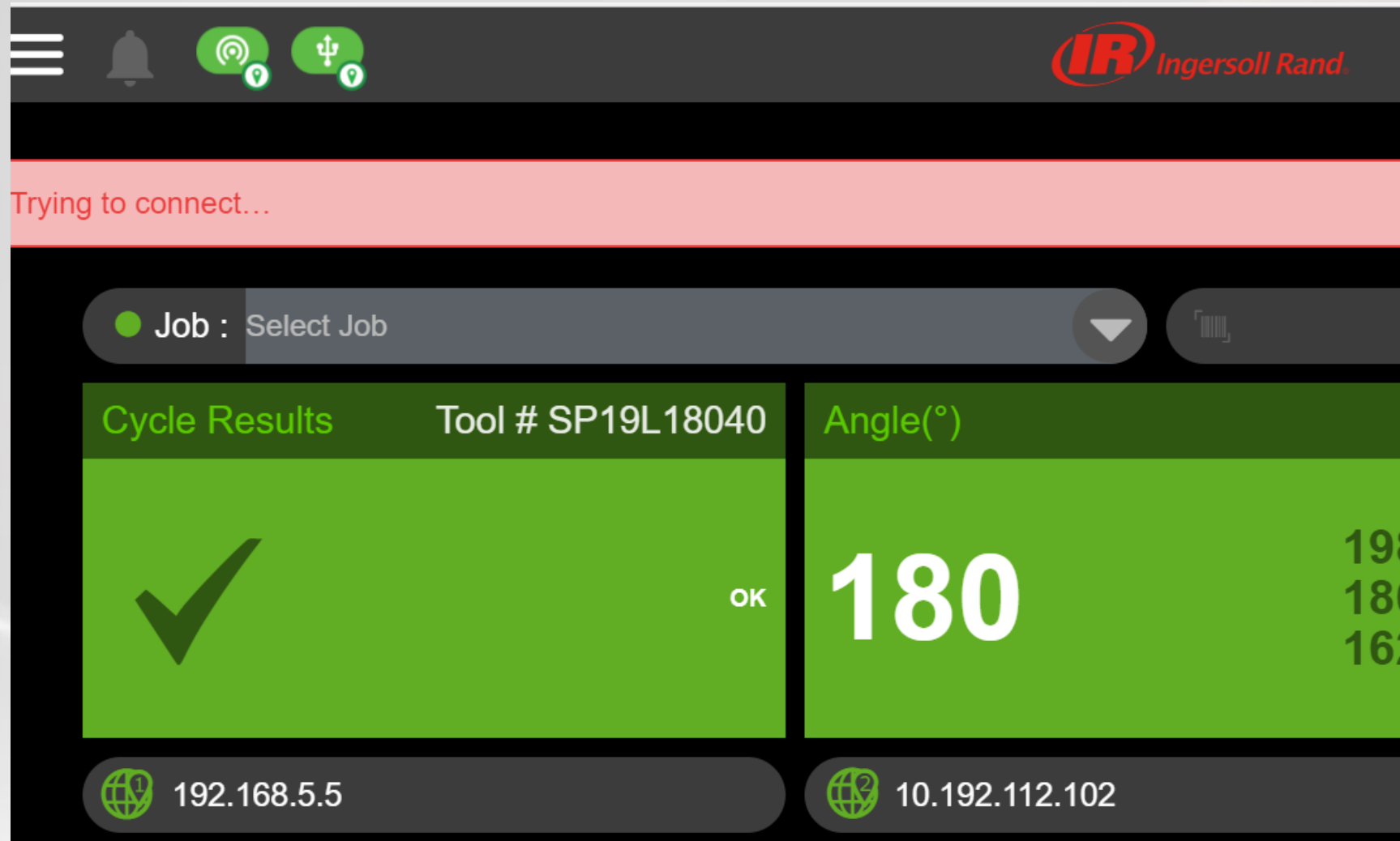
视频演示升级步骤



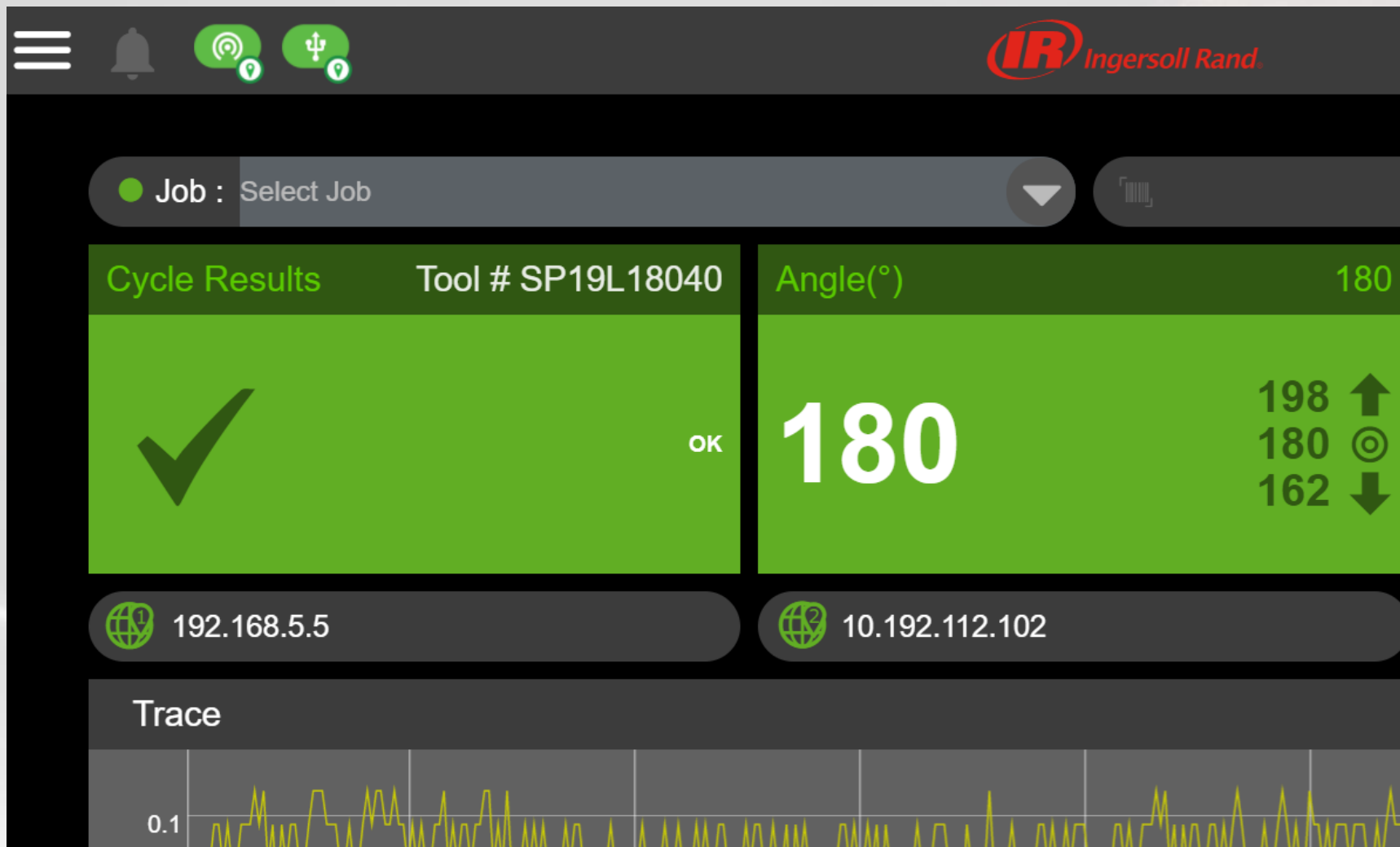
视频演示升级步骤



配对连接中...

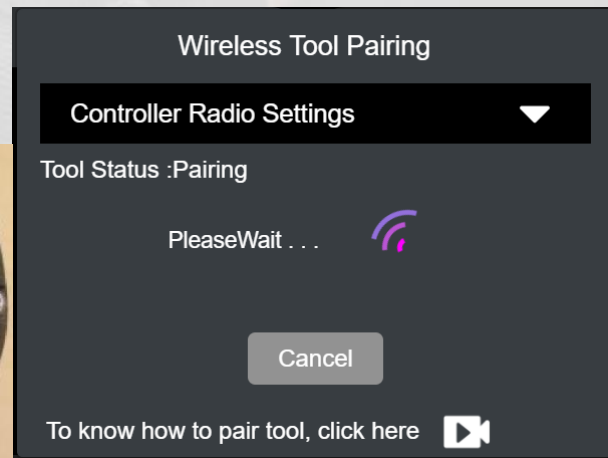
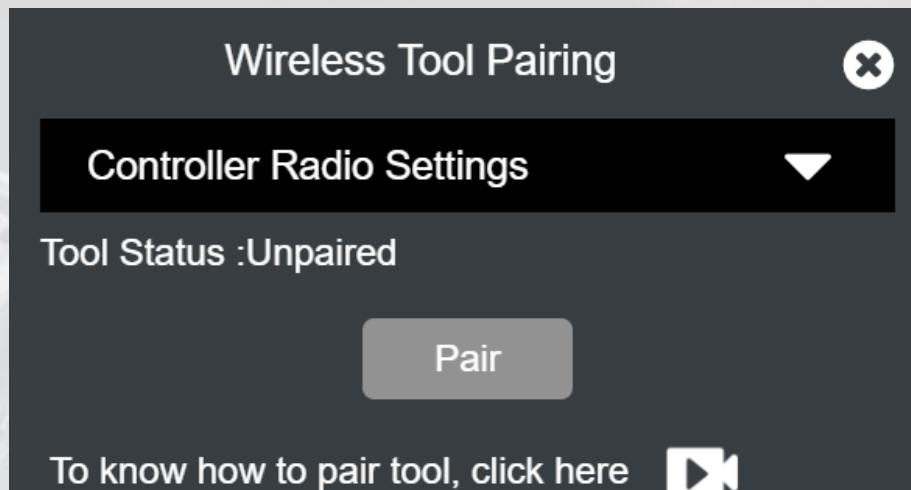


Map the tool 匹配成功



QCXD和新工具配对

- 如果这台QCXD和之前匹配的工具已解配或没有配对过， 无线连接符号是灰色的
- 点  出现工具配对的弹窗，可以点下拉菜单，设置匹配使用的PAN ID, RF Channel 和 Power Level数据
- RF Channel 的选择可根据QCXD诊断菜单下Wireless Energy Scan扫描的结果，数据越大的信道，说明占用越严重，推荐选择数据小的信道，当然11，12和25不推荐选择
- 点 Pair，然后在工具的键盘上，同时按下向左方向键和回车键，直到工具状态指示灯开始闪烁，这时屏幕会显示正在匹配...



之前和QCXD配对的工具信息

- 点  查看之前和这台QCXD配对的工具信息
- 弹窗包含之前和这台QCXD配对的工具的版本信息、控制器无线设置
- 如果QCXD升级过软件，可能会有提示原配对工具版本和目前QCXD标配的版本不匹配
- 点 UnPair 将解配断开之前已配对的工具。

Wireless Tool Pairing

Controller Radio Settings

Tool Status : Paired

⚠ Version mismatch found

#	Tool Version	
	Current version	Recommended version
Display	100.0.0.7	100.1.0.1
MCE	2.4.0.14	2.4.0.20
Radio	0.0.103.37	---

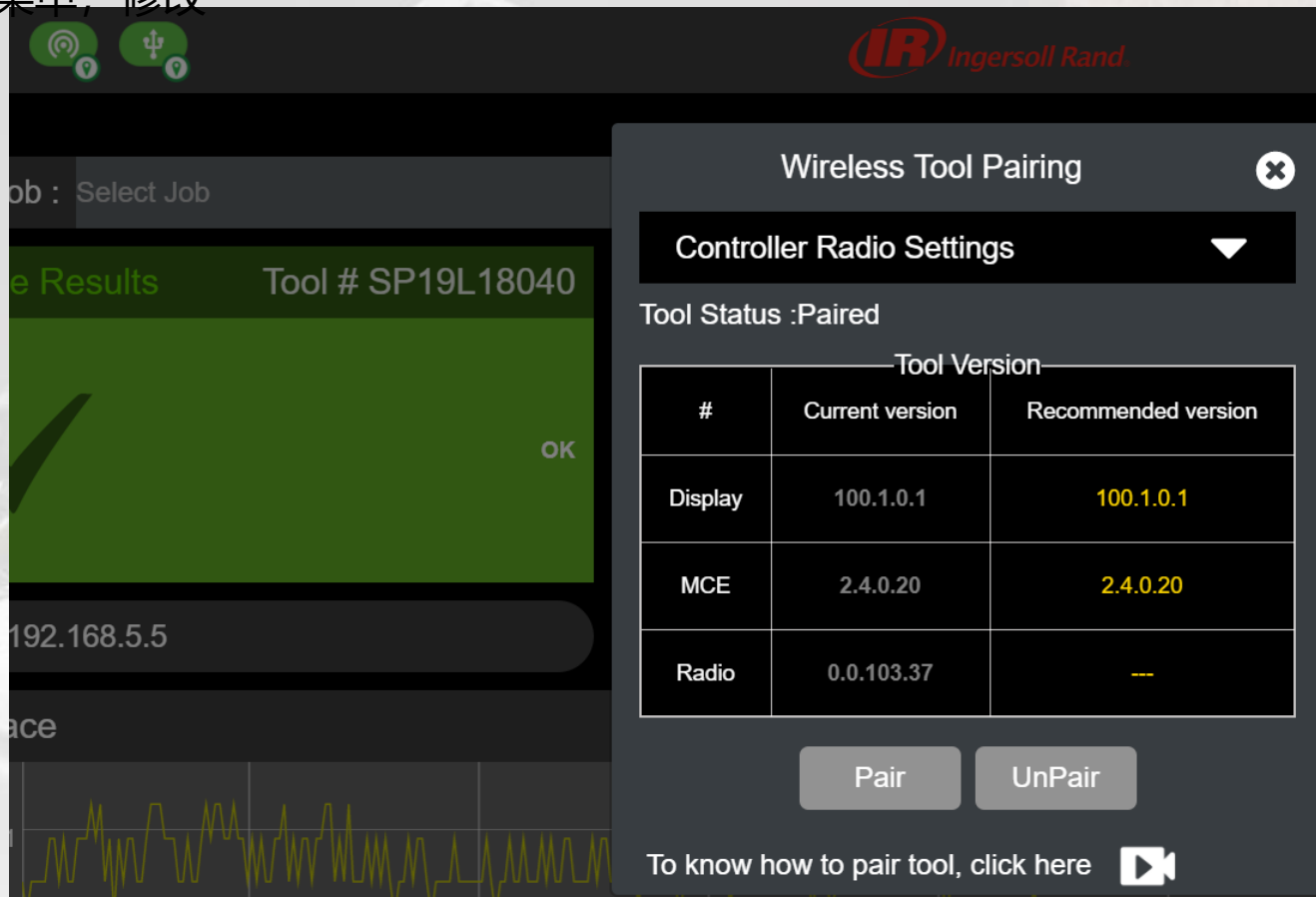
Pair

UnPair

To know how to pair tool, [click here](#) 

查看已配对工具的版本信息

- 点  查看和这台QCXD配对的工具信息
- 点 **UnPair** 已配对的工具将解配断开
- 也可以点下拉菜单，修改



可修改PAN ID, RF Channel 和 Power Level, 重新配对

Wireless Tool Pairing

Controller Radio Settings

PAN ID

51158

RF Channel

14

Power Level

1

Tool Status :Paired

Tool Version

#	Current version	Recommended version
Display	100.1.0.1	100.1.0.1
MCE	2.4.0.20	2.4.0.20
Radio	0.0.103.37	---

Pair

UnPair

Wireless Tool Pairing

Controller Radio Settings

PAN ID

51158

RF Channel

17

Power Level

4

Tool Status :Paired

Tool Version

#	Current version	Recommended version
---	-----------------	---------------------

设置Pset

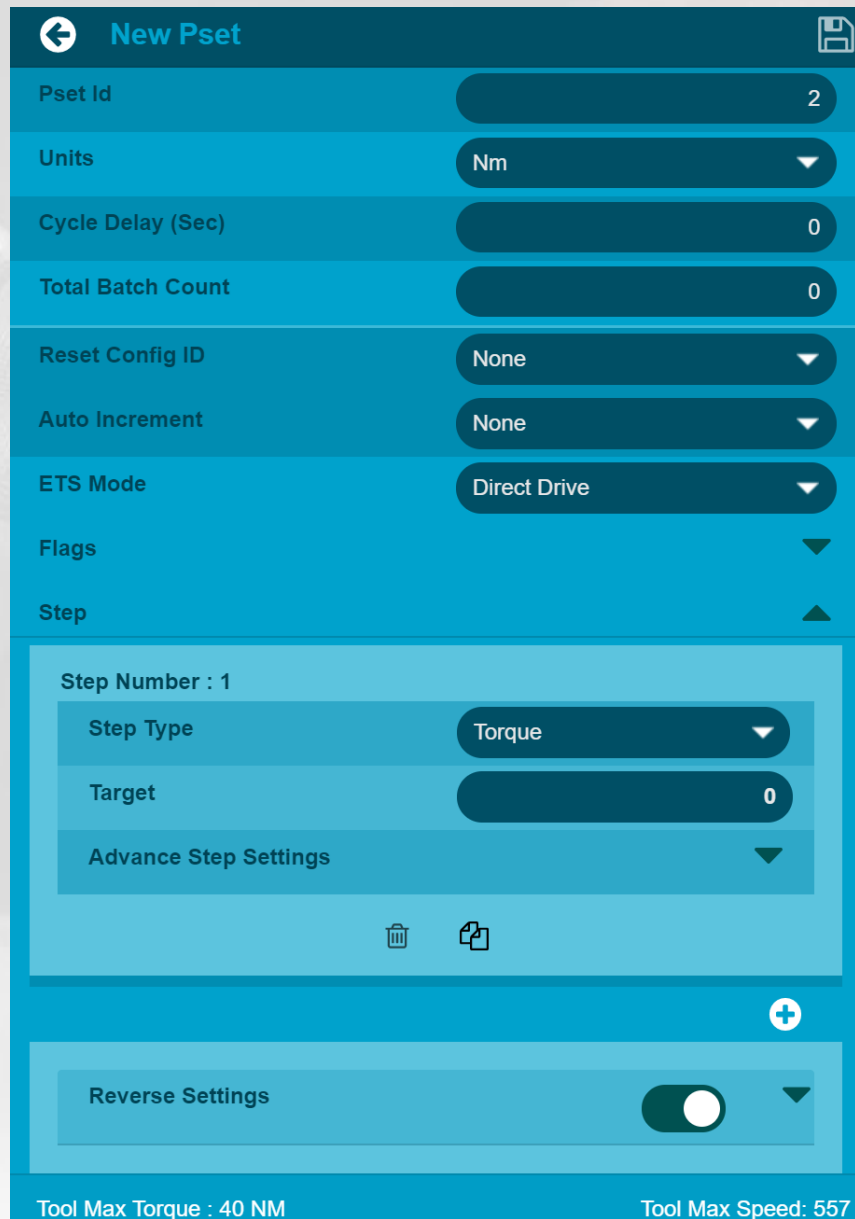
  Wireless Tool ▼  		
ID	 USB Tool	Action
1	720	
2	180	

最多支持32个 Pset

USB Tool				
ID	Pset	Action		
24	Pset_24	 		
25	Pset_25	 		
26	Pset_26	 		
27	Pset_27	 		
28	Pset_28	 		
29	Pset_29	 		
30	Pset_30	 		
31	Pset_31	 		
32	Pset_32	 		

USB模式下新建 Pset

- 选择USB设置工具的Pset, 只针对没有配对本台QCXD的其他工具才可以
- 已经和这台QCXD配对的工具无法通过USB设置Pset, 只能通过Wireless 模式
- 可以设置最多32个Pset,



New Pset

Pset Id: 2

Units: Nm

Cycle Delay (Sec): 0

Total Batch Count: 0

Reset Config ID: None

Auto Increment: None

ETS Mode: Direct Drive

Flags: ▼

Step: ▲

Step Number : 1

Step Type: Torque

Target: 0

Advance Step Settings: ▼

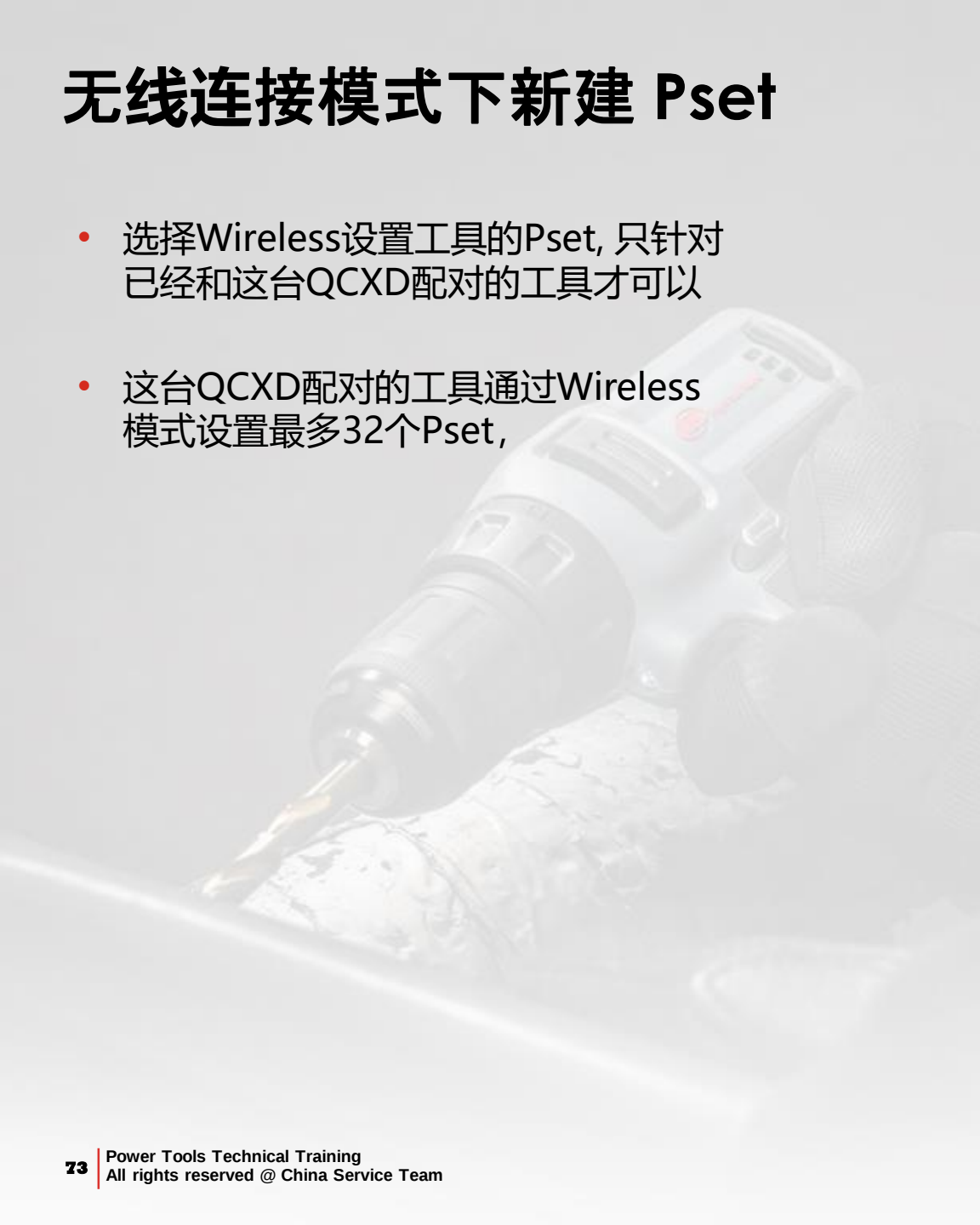
Reverse Settings: ☒

Tool Max Torque : 40 NM

Tool Max Speed: 557

无线连接模式下新建 Pset

- 选择Wireless设置工具的Pset, 只针对已经和这台QCXD配对的工具才可以
- 这台QCXD配对的工具通过Wireless模式设置最多32个Pset,



New Pset

Pset Name: Test Torque 2Nm

Units: Nm

Cycle Delay (Sec): 0

ETS Mode: Direct Drive

Flags

Audible Alert: Off

Batch Decrement: ☐

Trace Settings

Trace Enable: ☒

Trace Selection

- Torque: ☒
- Angle and Torque: ☐
- Torque and Current: ☐
- Torque and Angle and Current: ☐

Time (Sec): 1

Complete Curve Transfer: ☒

Curve Settings for Cycle

- All Cycles: ☒
- Only Fail Cycles: ☐

Step

Step Number : 1

Step Type: Torque

Target: 0

Advance Step Settings:

Reverse Settings:

Tool Max Torque : 40 NM

Tool Max Speed: 557

新建 Pset

 **Edit Pset** 

Step Number : 1

Step Type	Angle ▼
Target	Torque Angle Prevailing Torque
Torque High Limit	1
Advance Step Settings	▼

新建Pset

Edit Pset

Step Number : 1

Step Type

Angle

Target

360

Torque High Limit

3

Advance Step Settings

Rotation

Clockwise

Step Timeout (Sec)

15

Speed

Free Speed

557

Shift down Speed

111.4

Acceleration (%)

90

Angle

Target

360

High Limit

396

Low Limit

324

Torque

High Limit

3

Low Limit

0

Downshift Threshold

0.2

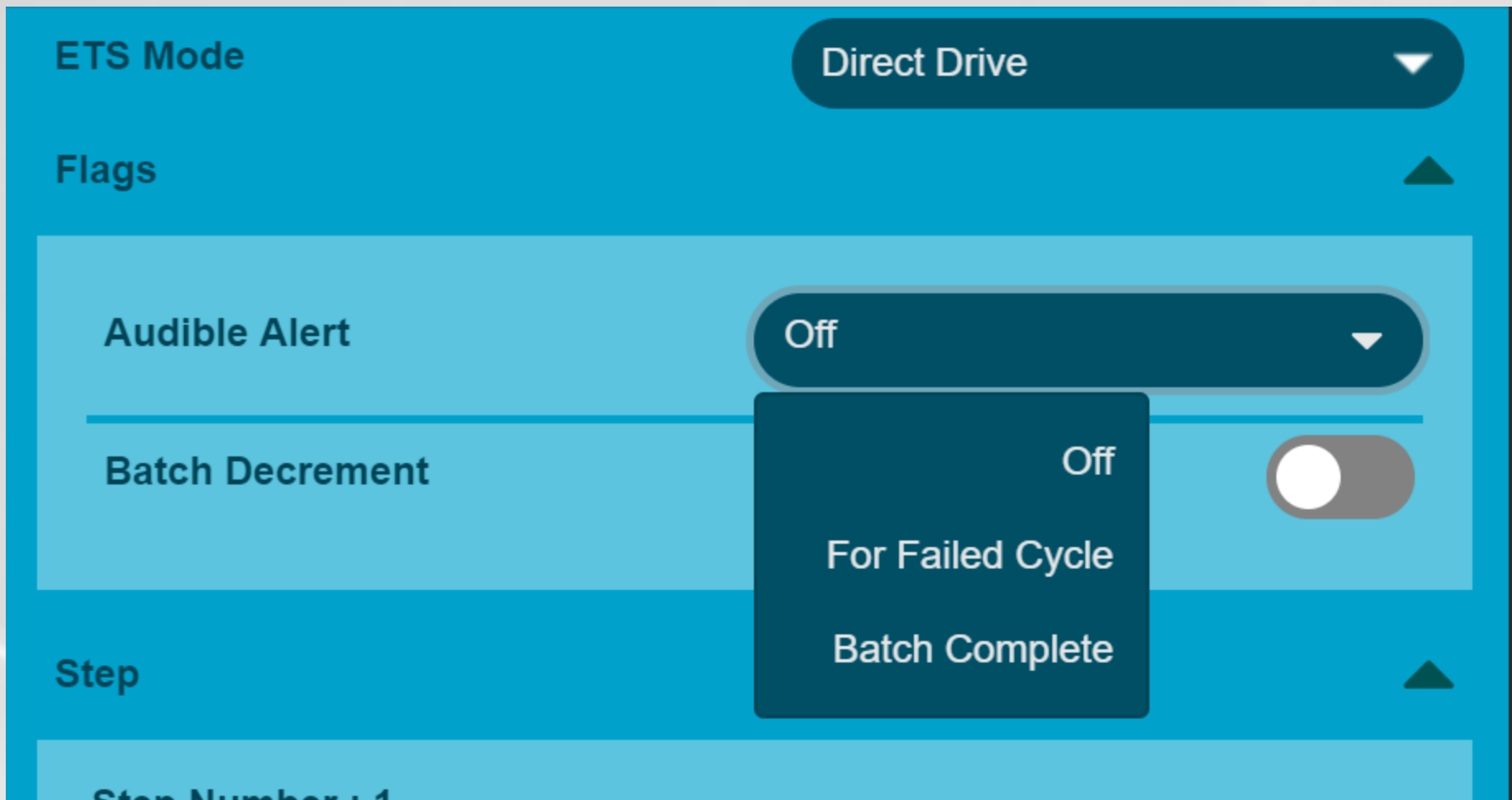
Threshold For Counting Angle

0.1

Tool Max Torque : 40 NM

Tool Max Speed: 557

ETS 工具相关设置



The image shows a screenshot of the ETS (Electrical Test System) tool settings interface. The interface has a blue header bar with the title 'ETS 工具相关设置'. Below the header, there are several settings sections. The 'ETS Mode' section shows 'Direct Drive' selected in a dropdown menu. The 'Flags' section is expanded, showing 'Audible Alert' set to 'Off' in a dropdown menu. Below this, 'Batch Decrement' is set to 'Off' with a toggle switch. A dropdown menu is open for 'Batch Decrement', showing options 'For Failed Cycle' and 'Batch Complete'. The 'Step' section is partially visible at the bottom, showing 'Step Number : 1'.

ETS Mode

Direct Drive

Flags

Audible Alert

Off

Batch Decrement

Off

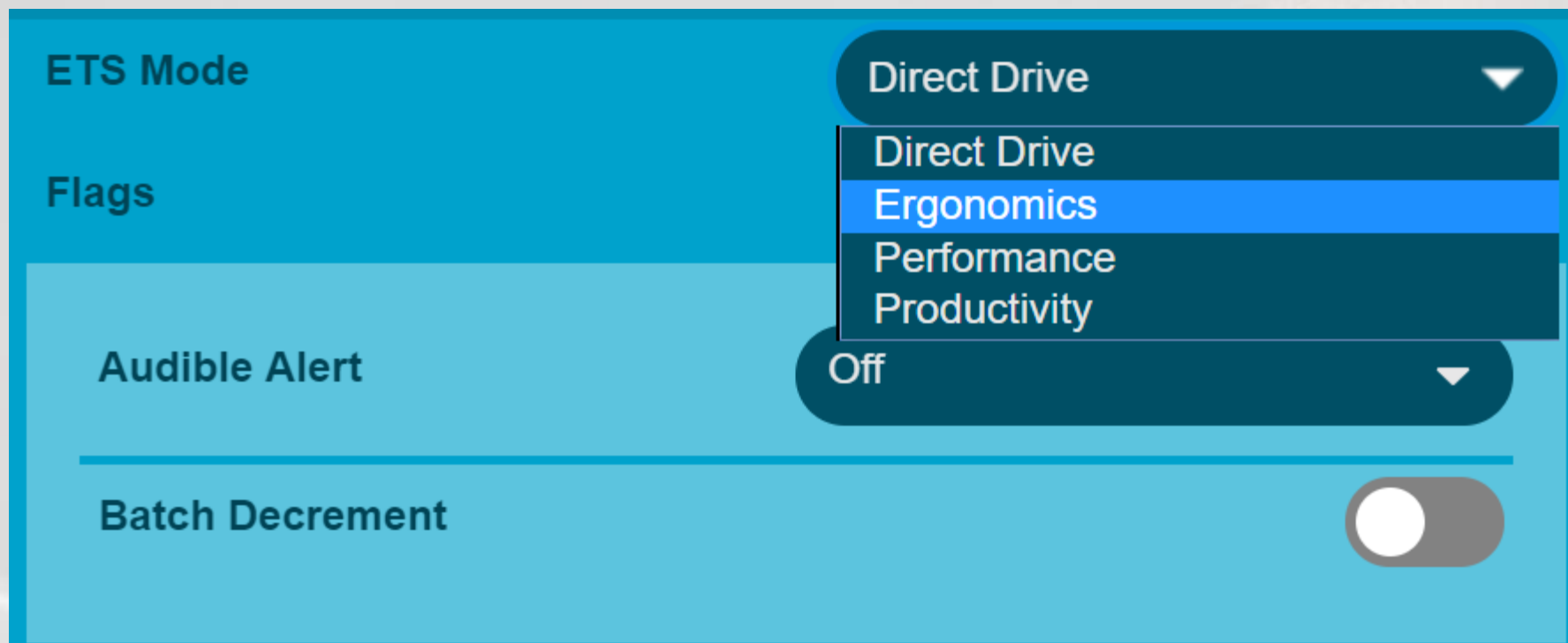
For Failed Cycle

Batch Complete

Step

Step Number : 1

ETS 的各种模式切换



Job Settings



Home

Job

Job List

Global Settings

Pset

Result

 Job List  

ID	Name	Interlocks	Action
No Job(s)			

新建 Job

 **New Job** 

Job Name

Test Angle 360

ID

1

Interlocks

☒ Valid Job

☐

 BCODE / VIN

☐

 Tool Enable

☐

 Smart Socket

☐

 Reverse Disable

☐

Pset(s)



1

Test 360 degree



About 控制器相关信息

Model	QCXD11-M
Serial Number	K19L00120
Controller Radio MAC Address	00:12:4B:00:03:A1:52:22
SATA ID	511190717025000913

Controller Version Information

Application Version	1.0.3
Database Version	0.0.4
OS Version	0.0.1
Radio Version	02.06

Tool Version Information

Tool Display Version	0.0.0.0
Tool MCE Version	0.0.0.0
Tool Radio Version	0.0.0.0

License Information

This product is licensed to

License type	Advanced
Creation Date	11/29/2019
Remaining hours to expire	No expiry

已启用的功能列表

Features Enabled

- About
- Logs - Audit Log
- System Maintenance - Backup and Restore
- Settings - BCODE / VIN
- Digital IO
- Discovery
- Settings - EOR Dataout
- Settings - NSN-EOR
- Logs - Event Log
- System Maintenance - Factory Reset
- System Maintenance - Firmware Update
- Settings - FRD-OP
- Home screen
- Job
- License
- Settings - PFCS
- Settings - PF-OP
- Logs - System Log
- Settings - Date & time, System Initialization, Ethernet
- Tool Diagnostics
- General settings
- User Management
- Wireless Diagnostics
- Wireless Energy Scan

