

TCR/TCN-02 Series

Electric Actuator

- Ultra-small size, delicate appearance (L104-W70-H90)
- Rated torque: 20Nm
- Enclosure level: IP67
- Mechanical port: ISO5211 (F03/F04/F05)
- Output shaft: Male square 12X12, Female octagonal 8X8/11X11/14X14
- Adopt high performance brushless motor, overall actuator could be used 20,000 times *1

※ TCR series means whole plastic casing: ABS/PC+PET

TCN series means die-casting aluminum casing, surface passivation spray-paint.



Product Model	Rated Voltage	Time	Additional Function	Remarks
 TCR/TCN-02N Normal on/off model	DC12/24V AC24/110/220V AC/DC24V AC/DC95-265V	10S@DC Series 15S@AC Series 10S	HTR(anti-condensation heater) KT32(failsafe) HTR(anti-condensation heater)	Dry contactor feedback Feedback signal is asynchronous with actual arrival
 TCR/TCN-02C Intelligent on/off model	DC12V AC/DC24V AC/DC95-265V	10S	KT32(failsafe) A(alarm signal output) HTR(anti-condensation heater)	Feedback signal is synchronous with actual arrival *2 PUL speed adjustment PWM speed adjustment 0.9/1.3" OLED screen Perform 2-way/3-way/4-way mode
 TCR/TCN-02T Intelligent modulating model	DC12V AC/DC24V AC/DC95-265V	10S	KT32(failsafe) A(alarm signal output) HTR(anti-condensation heater)	0.9/1.3" OLED screen Control feedback mode: 4-20mA/0-20mA/0-10mA 0-5V/1-5V/0-10V/2-10V *3
 TCR/TCN-02B Intelligent bus model	DC12V DC24V AC95-265V (No suggest) *4	10S	KT32(failsafe) HTR(anti-condensation heater)	RS485, CANBus2.0 0.9/1.3" OLED screen On/Off mode has PUL and PWM speed adjustment function Bus on/off model(ON/OFF/B33) Bus modulating model, modulate precision is 5‰
 TCR/TCN-02D Intelligent timer model	DC12V AC/DC24V AC/DC95-265V	10S	KT32(failsafe) HTR(anti-condensation heater)	0.9/1.3" OLED screen Internal with rechargeable batteries Could keep working for 60days after power-cut Pluse or Time timer mode Loop by days or weeks
 TCR/TCN-02R Intelligent wireless model	DC12V AC/DC24V AC/DC95-265V	10S	KT32(failsafe) HTR(anti-condensation heater)	Wireless ON/OFF model(ON/OFF) 0.9/1.3" OLED screen Wireless modulating model, modulate precision is 5‰ Communication frequency:433/868/915MHZ LORA: The max is 2.5km (cleared area) ENOCAN:20-100m*5

Notice: *1. Test condition: Rated load, test at factory environment of 25°C temperature and 50% humidity, lead the result from 2 times switching cycle, which will be influenced by different load and working environment.

*2. The relay feedback is dry feedback signal, which will be disappeared when power-cut, and then will be recovery when power-on.

*3. The control terminal adopts two ways independence input: One way is 0-10V,2-10V,0-5V,1-5V. The other is 0-20mA,4-20mA,0-10mA.Both could be selected by menu.

The feedback terminal also adopts two ways independence output: One way is 4-20mA, the default is output. The other is 2-10V, the default is output.

Both of them could be changed to 0-20mA or 0-10V output.

*4. For bus mode,it's not recommend to use AC95-265V,because AC power could influence the communication reliability of the whole network.

*5. The OCEAN mode of wireless model provide self-powered telecontrol switch, while the LORA mode provide wireless centralized controller.

Wireless model doesn't have mechanical manual function. But under power-on condition it could be control valve on or off by key-press and menu in local.

ABS: Supply by CHIMEI from China Taiwan,which has excellent anti-temperature characteristics,-20-80°C.

PC+PET: Supply by LG Company, whose anti-temperature, anti-impact and chemical corrosion resistance characteristics are better than ABS, but it will be surely cost more.

PWM: The influence of speed adjustment to torque, the lower speed, the smaller torque, the max will be reduce more than 35%.

PUL: Speed V has little influence to torque, the torque would be reduce about 15%

HTR: Anti-condensation heater ,built-in module, when the internal temperature is below 25°C,the actuator will turn on heating function, which power is 2W.

A: Means fault feedback signal, which is relay dry feedback signal.

KT32: Normal series only has power-cut close function,but Intelligent series could operate command(ON/OFF/KEEP) by menu after power-cut.



Ocean Controller

Lora Controller



TCR/TCN-02 Highspeed Series Electric Actuator

- Ultra-small size, delicate appearance (L104-W70-H90)
- Rated torque: 15Nm@1-2S 20Nm@5-7S
- Enclosure level: IP67
- Mechanical port: ISO5211 (F03/F04/F05)
- Output shaft: Male square 12X12, Female octagonal 8X8/11X11/14X14
- Adopt high performance brushless motor, overall actuator could be used 20,000 times ^{*1}
- ※ TCR series means whole plastic casing: ABS/PC+PET
- TCN series means die-casting aluminum casing, surface passivation spray-paint.



	Product Model	Rated Voltage	Time	Additional Function	Remarks
	TCR/TCN-02NH Normal on/off model	DC24V AC/DC24V AC/DC95-265V	1-2S 5-7S	HTR(anti-condensation heater)	Dry contactor feedback Feedback signal is asynchronous with actual arrival
	TCR/TCN-02CH Intelligent on/off model	DC24V AC/DC24V AC/DC95-265V	1-2S 5-7S	A(alarm signal output) HTR(anti-condensation heater)	Feedback signal is synchronous with actual arrival ^{*2} PUL speed adjustment PWM speed adjustment 0.9/1.3" OLED screen Perform 2-way/3-way/4-way mode
	TCR/TCN-02TH Intelligent modulating model	DC24V AC/DC24V AC/DC95-265V	1-2S 5-7S	A(alarm signal output) HTR(anti-condensation heater)	0.9/1.3" OLED screen Control feedback mode : 4-20mA/0-20mA/0-10mA 0-5V/1-5V/0-10V/2-10V ^{*3}
	TCR/TCN-02BH Intelligent bus model	DC24V AC/DC24V	1-2S 5-7S	HTR(anti-condensation heater)	RS485, CANBus2.0 0.9/1.3" OLED screen On/Off model has PUL and PWM speed adjustment function Bus on/off model(ON/OFF/B33) Bus modulating model, modulate precision is 5%
	TCR/TCN-02DH Intelligent timer model	DC24V AC/DC24V AC/DC95-265V	1-2S 5-7S	HTR(anti-condensation heater)	0.9/1.3" OLED screen Internal with rechargeable batteries Could keep working for 60days after power-cut Pluse or Time timer mode Loop by days or weeks
	TCR/TCN-02RH Intelligent wireless model	DC24V AC/DC24V AC/DC95-265V	1-2S 5-7S	HTR(anti-condensation heater)	Wireless ON/OFF model(ON/OFF) 0.9/1.3" OLED screen Wireless modulating model, modulate precision is 5% Communication frequency:433/868/915MHZ LORA: The max is 2.5km (cleared area) ENOCAN:20-100m ^{*4}

Notice: ^{*1} Test condition: Rated load, test at factory environment of 25°C temperature and 50% humidity , lead the result from 2 times switching cycle, which will be influenced by different load and working environment.

^{*2} The relay feedback is dry feedback signal, which will be disappeared when power-cut, and then will be recovery when power-on.

^{*3} The control terminal adopts two ways independence input: One way is 0-10V,2-10V,0-5V,1-5V . The other is 0-20mA,4-20mA,0-10mA.Both could be selected by menu.

The feedback terminal also adopts two ways independence output: One way is 4-20mA , the default is output . The other is 2-10V ,the default is output . Both of them could be changed to 0-20mA or 0-10V output.

^{*4} The OCEAN mode of wireless model provide self-powered telecontrol switch, while the LORA mode provide wireless centralized controller. Wireless model doesn't have mechanical manual function. But under power-on condition it could be control valve on or off by key-press and menu in local.

ABS: Supply by CHIMEI from China Taiwan,which has excellent anti-temperature characteristics, -20-80°C.

PC+PET: Supply by LG Company, whose anti-temperature, anti-impact and chemical corrosion resistance characteristics are better than ABS, but it will be surely cost more.

PWM: The influence of speed adjustment to torque, the lower speed ,the smaller torque ,the max will be reduce more than 35%.

PUL: Speed regulating has little adjustment to torque, the torque would be reduce about 15%

HTR: Anti-condensation heater ,built-in module, when the internal temperature is below 25°C,the actuator will turn on heating function, which power is 2W.

A: Means fault feedback signal, which is relay dry feedback signal.



Ocean Controller

Lora Controller



TCR-06/11 Series

Electric Actuator

- Ultra-small size, delicate appearance (L189-W115-H121)
- Rated torque: 60/110Nm
- Enclosure level: IP67
- Mechanical port: ISO5211 (F05/F07)
- Output shaft: Male square 15X15, Female octagonal 17X17
- Adopt high performance brushless motor, overall actuator could be used 20,000 times^{*1}
- ※ TCR series means whole plastic casing: ABS/PC+PET



	Product Model	Rated Voltage	Time	Additional Function	Remarks
	TCR-06/11N Normal on/off model	DC12/24V AC24/110/220V AC/DC24V AC/DC95-265V	10S@DC Series 15S@AC Series 10S	HTR(anti-condensation heater) KT2/KT32(failsafe) HTR(anti-condensation heater)	Dry contactor feedback Feedback signal is asynchronous with actual arrival
	TCR-06/11C Intelligent on/off model	DC12V AC/DC24V AC/DC95-265V	10S	KT2/KT32(failsafe) A(alarm signal output) HTR(anti-condensation heater)	Feedback signal is synchronous with actual arrival ^{*2} PUL speed adjustment PWM speed adjustment 1.3" OLED screen Perform 2-way/3-way/4-way mode
	TCR-06/11T Intelligent modulating model	DC12V AC/DC24V AC/DC95-265V	10S	KT2/KT32(failsafe) A(alarm signal output) HTR(anti-condensation heater)	1.3" OLED screen Control feedback mode: 4-20mA/0-20mA/0-10mA 0-5V/1-5V/0-10V/2-10V ^{*3}
	TCR-06/11B Intelligent bus model	DC12V DC24V AC95-265V (No suggest) ^{*4}	10S	KT2/KT32(failsafe) HTR(anti-condensation heater)	RS485, CANBus2.0 1.3" OLED screen On/Off model has PUL and PWM speed adjustment function Bus on/off model(ON/OFF/B33) Bus modulating model, modulate precision is 5%
	TCR-06/11D Intelligent timer model	DC12V AC/DC24V AC/DC95-265V	10S	KT2/KT32(failsafe) HTR(anti-condensation heater)	1.3" OLED screen Internal with rechargeable batteries Could keep working for 60days after power-cut Plus or Time timer mode Loop by days or weeks
	TCR-06/11R Intelligent wireless model	DC12V AC/DC24V AC/DC95-265V	10S	KT2/KT32(failsafe) HTR(anti-condensation heater)	Wireless ON/OFF model(ON/OFF) 1.3" OLED screen Wireless modulating model, modulate precision is 5% Communication frequency:433/868/915MHZ LORA: The max is 2.5km (cleared area) ENOCAN:20-100m ^{*5}

Notice: ^{*1} Test condition: Rated load, test at factory environment of 25°C temperature and 50% humidity, lead the result from 2 times switching cycle, which will be influenced by different load and working environment.

^{*2} The relay feedback is dry feedback signal, which will be disappeared when power-cut, and then will be recovery when power-on.

^{*3} The control terminal adopts two ways independence input: One way is 0-10V, 2-10V, 0-5V, 1-5V. The other is 0-20mA, 4-20mA, 0-10mA. Both could be selected by menu. The feedback terminal also adopts two ways independence output: One way is 4-20mA, the default is output. The other is 2-10V, the default is output. Both of them could be changed to 0-20mA or 0-10V output.

^{*4} For bus mode, it's not recommend to use AC95-265V, because AC power could influence the communication reliability of the whole network.

^{*5} The OCEAN mode of wireless model provide self-powered telecontrol switch, while the LORA mode provide wireless centralized controller. Wireless model doesn't have mechanical manual function. But under power-on condition it could be control valve on or off by key-press and menu in local.

ABS: Supply by CHIMEI from China Taiwan, which has excellent anti-temperature characteristics, -20-80°C.

PC+PET: Supply by LG Company, whose anti-temperature, anti-impact and chemical corrosion resistance characteristics are better than ABS, but it will be surely cost more.

PWM: The influence of speed adjustment to torque, the lower speed, the smaller torque, the max will be reduce more than 35%.

PUL: Speed adjustment has little influence to torque, the torque would be reduce about 15%

HTR: Anti-condensation heater, built-in module, when the internal temperature is below 25°C, the actuator will turn on heating function, which power is 2W.

A: Means fault feedback signal, which is relay dry feedback signal.

KT2/KT32: Normal series only has power-cut close function, but Intelligent series could operate command(ON/OFF/KEEP) by menu after power-cut.

Internal is high energy polymer recharged batteries, built-in overcurrent, overheat, overload protection. When power-cut, intelligent series operate on/off set by menu. (more than 50 times)

KT2: Compatible with solenoid valve operation mode.



Ocean Controller



Lora Controller



TCR-06/11 Highspeed Series Electric Actuator

- Ultra-small size, delicate appearance (L189-W115-H121)
- Rated torque: 50/100Nm
- Enclosure level: IP67
- Mechanical port: ISO5211 (F05/F07)
- Output shaft: Male square 15X15, Female octagonal 17X17
- Adopt high performance brushless motor, overall actuator could be used 20,000 times ^{*1}
- ※ TCR series means whole plastic casing: ABS/PC+PET



	Product Model	Rated Voltage	Time	Additional Function	Remarks
	TCR-06/11NH Normal on/off model	DC24V AC/DC24V AC/DC95-265V	2-3S 5-7S	HTR(anti-condensation heater)	Dry contactor feedback Feedback signal is asynchronous with actual arrival
	TCR-06/11CH Intelligent on/off model	DC24V AC/DC24V AC/DC95-265V	2-3S 5-7S	A(alarm signal output) HTR(anti-condensation heater)	Feedback signal is synchronous with actual arrival ^{*2} PUL speed adjustment PWM speed adjustment 1.3" OLED screen Perform 2-way/3-way/4-way mode
	TCR-06/11TH Intelligent modulating model	DC24V AC/DC24V AC/DC95-265V	2-3S 5-7S	A(alarm signal output) HTR(anti-condensation heater)	1.3" OLED screen Control feedback mode: 4-20mA/0-20mA/0-10mA 0-5V/1-5V/0-10V/2-10V ^{*3}
	TCR-06/11BH Intelligent bus model	DC24V AC/DC24V	2-3S 5-7S	HTR(anti-condensation heater)	RS485, CANBus2.0 1.3" OLED screen On/Off mode has PUL and PWM speed adjustment function Bus on/off model(ON/OFF/B33) Bus modulating model, modulate precision is 5%
	TCR-06/11DH Intelligent timer model	DC24V AC/DC24V AC/DC95-265V	2-3S 5-7S	HTR(anti-condensation heater)	1.3" OLED screen Internal with rechargeable batteries Could keep working for 60days after power-cut Pluse or Time timer mode Loop by days or weeks
	TCR-06/11RH Intelligent wireless model	DC24V AC/DC24V AC/DC95-265V	2-3S 5-7S	HTR(anti-condensation heater)	Wireless ON/OFF model(ON/OFF) 1.3" OLED screen Wireless modulating model, modulate precision is 5% Communication frequency:433/868/915MHZ LORA: The max is 2.5km (cleared area) ENOCAN:20-100m ^{*4}

Notice: ^{*1}. Test condition: Rated load, test at factory environment of 25°C temperature and 50% humidity, lead the result from 2 times switching cycle, which will be influenced by different load and working environment.

^{*2}. The relay feedback is dry feedback signal, which will be disappeared when power-cut, and then will be recovery when power-on.

^{*3}. The control terminal adopts two ways independence input: One way is 0-10V,2-10V,0-5V,1-5V. The other is 0-20mA,4-20mA,0-10mA.Both could be selected by menu.

The feedback terminal also adopts two ways independence output: One way is 4-20mA, the default is output. The other is 2-10V, the default is output. Both of them could be changed to 0-20mA or 0-10V output.

^{*4}. The OCEAN mode of wireless model provide self-powered telecontrol switch, while the LORA mode provide wireless centralized controller. Wireless model doesn't have mechanical manual function. But under power-on condition it could be control valve on or off by key-press and menu in local.

ABS: Supply by CHIMEI from China Taiwan, which has excellent anti-temperature characteristics, -20-80°C.

PC+PET: Supply by LG Company, whose anti-temperature, anti-impact and chemical corrosion resistance characteristics are better than ABS, but it will be surely cost more.

PWM: The influence of speed adjustment to torque, the lower speed, the smaller torque, the max will be reduce more than 35%.

PUL: Speed adjustment has little influence to torque, the torque would be reduce about 15%

HTR: Anti-condensation heater, built-in module, when the internal temperature is below 25°C, the actuator will turn on heating function, which power is 2W.

A: Means fault feedback signal, which is relay dry feedback signal.



Ocean Controller

Lora Controller



TCN-05/10/20/40/100/200 Series

Electric Actuator

- Ultra-small size, delicate appearance
- Rated torque: 50/100/200/400/1000/2000Nm
- Enclosure level: IP67
- Mechanical port: ISO5211 (F05/F07)
- Output shaft: Female octagonal: 14X14@05 17X17@10 22X22@20/40
Male square: 12X12@05 14X14@10 22X22@20/40 30X30@100/200
- Adopt high performance brushless motor, overall actuator could be used 10,000 times *1
- ※ TCN series means die-casting aluminum casing, surface passivation spray-paint.



Product Model	Rated Voltage	Time	Additional Function	Remarks
 TCN Series-N Normal on/off model	DC24V AC24/110/220/380V	10S@05/10 10/30S@20/40 40S@100 80S@200 20S@05 30S@10/20/40 60S@100 100S@200	HTR(anti-condensation heater)	Dry contactor feedback Feedback signal is asynchronous with actual arrival
 TCN Series-C Intelligent on/off model	DC24V AC24/110/220V	10S@05/10/20/40 40S@100 80S@200 20S@05 30S@10/20/40 60S@100 100S@200	A(alarm signal output) HTR(anti-condensation heater)	Feedback signal is synchronous with actual arrival *2 PUL speed adjustment PWM speed adjustment@DC Series 1.3" OLED screen Perform 2-way/3-way/4-way mode
 TCN Series-T Intelligent modulating model	DC24V AC24/110/220V	10S@05/10/20/40 40S@100 80S@200 20S@05 30S@10/20/40 60S@100 100S@200	A(alarm signal output) HTR(anti-condensation heater)	1.3" OLED screen Control feedback mode: 4-20mA/0-20mA/0-10mA 0-5V/1-5V/0-10V/2-10V *3
 TCN Series-B Intelligent bus model	DC24V AC24/110/220V	10S@05/10/20/40 40S@100 80S@200 20S@05 30S@10/20/40 60S@100 100S@200	HTR(anti-condensation heater)	RS485, CANBus2.0 1.3" OLED screen On/Off model has PUL Bus on/off model(ON/OFF/B33) Bus modulating model, modulate precision is 1%
 TCN Series-R Intelligent wireless model	DC24V AC24/110/220V	10S@05 2/10S@10/20 10/30S@40 40S@100 80S@200 15S@05 4/30S@10/20 30S@40 60S@100 100S@200	HTR(anti-condensation heater)	Wireless ON/OFF model(ON/OFF) 1.3" OLED screen Wireless modulating model, modulate precision is 1% Communication frequency: 433/868/915MHZ LORA: The max is 2.5km (cleared area) ENOCLEAN:20-100m*4

Notice: *1. Test condition: Rated load, test at factory environment of 25°C temperature and 50% humidity, lead the result from 2 times switching cycle, which will be influenced by different load and working environment.

*2. The relay feedback is dry feedback signal, which will be disappeared when power-out, and then will be recovery when power-on.

*3. The control terminal adopts two ways independence input: One way is 0-10V, 2-10V, 0-5V, 1-5V. The other is 0-20mA, 4-20mA, 0-10mA. Both could be selected by menu.

The feedback terminal also adopts two ways independence output: One way is 4-20mA, the default is output. The other is 2-10V, the default is output. Both of them could be changed to 0-20mA or 0-10V output.

*4. The OCEAN mode of wireless model provide self-powered telecontrol switch, while the LORA mode provide wireless centralized controller. Wireless model doesn't have mechanical manual function. But under power-on condition it could be control valve on or off by key-press and menu in local.

PWM: The influence of speed adjustment to torque, the lower speed, the smaller torque, the max will be reduce more than 35%.

PUL: Speed adjustment has little influence to torque, the torque would be reduce about 15%

HTR: Anti-condensation heater, built-in module, when the internal temperature is below 25°C, the actuator will turn on heating function, which power is 2W.

A: Means fault feedback signal, which is relay dry feedback signal.



TCN-10/20 Highspeed Series Electric Actuator

- Ultra-small size, delicate appearance
- Rated torque: 30Nm@10AC Series 50Nm@10AC Series
40Nm@10DC Series 60Nm@20DC Series
- Enclosure level: IP67
- Mechanical port: ISO5211 (F05/F07)
- Output shaft: Female octagonal: 17X17@10 22X22@20
Male square: 14X14@10 22X22@20
- Adopt high performance brushless motor, overall actuator could be used 10,000 times ^{*1}
- ※ TCN series means die-casting aluminum casing, surface passivation spray-paint.



TCN-10
(L192-W139-H125)



TCN-20
(L223-W176-H132)

Product Model	Rated Voltage	Time	Rated Torque	Additional Function	Remarks
 TCN-10/20NH Normal on/off model	DC24V AC24/110/220/380V	2S@DC Series 4S@AC Series	40Nm@10DC Series 60Nm@20DC Series 30Nm@10AC Series 50Nm@20AC Series	HTR(anti-condensation heater)	Dry contactor feedback Feedback signal is asynchronous with actual arrival
 TCN-10/20CH Intelligent on/off model	DC24V AC24/110/220V	2S@DC Series 4S@AC Series	40Nm@10DC Series 60Nm@20DC Series 30Nm@10AC Series 50Nm@20AC Series	A(alarm signal output) HTR(anti-condensation heater)	Feedback signal is synchronous with actual arrival ^{*2} PUL speed adjustment PWM speed adjustment@DC Series 1.3" OLED screen Perform 2-way/3-way/4-way mode
 TCN-10/20TH Intelligent modulating model	DC24V AC24/110/220V	2S@DC Series 4S@AC Series	40Nm@10DC Series 60Nm@20DC Series 30Nm@10AC Series 50Nm@20AC Series	A(alarm signal output) HTR(anti-condensation heater)	1.3" OLED screen Control feedback mode: 4-20mA/0-20mA/0-10mA 0-5V/1-5V/0-10V/2-10V ^{*3}
 TCN-10/20BH Intelligent bus model	DC24V AC24/110/220V	2S@DC Series 4S@AC Series	40Nm@10DC Series 60Nm@20DC Series 30Nm@10AC Series 50Nm@20AC Series	HTR(anti-condensation heater)	RS485, CANBus2.0 1.3" OLED screen On/Off model has PUL Bus on/off model(ON/OFF/B33) Bus modulating model, modulate precision is 1%
 TCN-10/20RH Intelligent wireless model	DC24V AC24/110/220V	2S@DC Series 4S@AC Series	40Nm@10DC Series 60Nm@20DC Series 30Nm@10AC Series 50Nm@20AC Series	HTR(anti-condensation heater)	Wireless ON/OFF model(ON/OFF) 1.3" OLED screen Wireless modulating model, modulate precision is 1% Communication frequency: 433/868/915MHZ LORA: The max is 2.5km (cleared area) ENOCAN:20-100m ^{*4}

Notice: ^{*1}. Test condition: Rated load, test at factory environment of 25°C temperature and 50% humidity, lead the result from 2 times switching cycle, which will be influenced by different load and working environment.

^{*2}. The relay feedback is dry feedback signal, which will be disappeared when power-off, and then will be recovery when power-on.

^{*3}. The control terminal adopts two ways independence input: One way is 0-10V, 2-10V, 0-5V, 1-5V. The other is 0-20mA, 4-20mA, 0-10mA. Both could be selected by menu.

The feedback terminal also adopts two ways independence output: One way is 4-20mA, the default is output. The other is 2-10V, the default is output. Both of them could be changed to 0-20mA or 0-10V output.

^{*4}. The OCEAN mode of wireless model provide self-powered telecontrol switch, while the LORA mode provide wireless centralized controller, wireless model doesn't have mechanical manual function. But under power-on condition it could be control valve on or off by key-press and menu in local.

PWM: The influence of speed adjustment to torque, the lower speed, the smaller torque, the max will be reduce more than 35%.

PUL: Speed adjustment has little influence to torque, the torque would be reduce about 15%.

HTR: Anti-condensation heater, built-in module, when the internal temperature is below 25°C, the actuator will turn on heating function, which power is 2W.

A: Means fault feedback signal, which is relay dry feedback signal.



Ocean Controller



Lora Controller

