

HITROL CO., LTD.

HEAD OFFICE.FACTORY.R&D INSTITUDE HITROL CO., LTD 141, Palhakgol-gil, Jori-eup Paju-si, Gyeonggi-do, Korea TEL.: (00)-82-31-950-9700 FAX: (00)-82-31-943-5600 www.hitrol.com

INSTRUCTION MANUAL

CAPACITANCE TYPE LEVEL SWITCH HCC-96RF-C(S) Series



Doc. no. : HCC96RFC(S)_IM_Eng_Rev.1 Issue date: 2021. 01

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Overview HCC-96RF-C(S) Series is a Radio Frequency Type Level Switch, and it detects level of a medium by sensing of capacitance value change caused by a dielectric constant of each medium. HCC-96RF-S Series can solve the build-up phenomenon of the detection part due to electro-conducting materials by using "Guard Technology Phase Shifting".

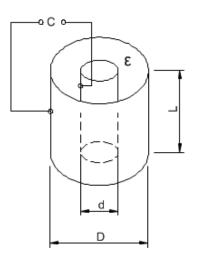
- **Characteristics** Compensation electrode type with double structured sensor (Only for HCC-96RF-S)
 - Prevention of malfunction caused by material build-up on the sensor
 - Solid structure and semi-permanent life cycle due to non-machinery parts
 - Easy installation and calibration
 - Operating can be checked at the site.

 Operating
 For HCC-96RF-C Series, if the level of the medium increases and the main probe comes

 Principle
 into contact with the medium, the impedance changes depending on the capacitance value. Using phase change of the signal being measured according to change of impedance, measure the presence or absence of the medium and output it to the relay contact.

For HCC-96RF-S Series, compares the signal flowing from active sensing probe towards ground with reference RF signal, when the medium is detecting. Since all material has unique dielectric constant (relative permittivity) and conductance value that are different from air, the impedance of the signal circuit is changed when medium touches the probe. This change causes a shift in phase of the RF Signal. A phase difference between the active signal and reference signal causes the output circuitry to operate. (This type can only be applied to solid/dust.)

For cylindrical tank, the capacitance can be obtained as follow.



$$C = \epsilon L / \log(\frac{D}{d})$$

- C : Capacitance of medium (pF)
- $\boldsymbol{\epsilon}$: Relative dielectric constant
- L: Length of Probe
- D: Outer diameter of tank
- d : Outer diameter of sensing probe

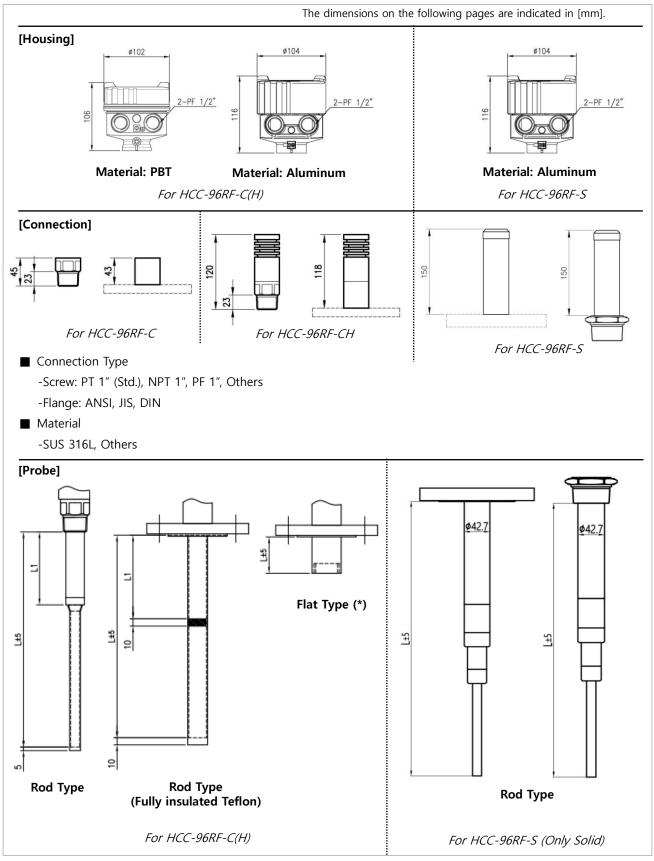
Specifications Product

Model	HCC-96RF-C	HCC-96RF-S		
Drobo Turo	Main	Main +		
Probe Type	Main Probe Compensation Probe			
Mounting		Flange or Screw		
Ambient temperature	-20°C ~ +60°C			
Process temperature	Max. 80°C	Max. 150°C	Max. 240°C	
Process Pressure	Up to 2	Up to 10kg/cm ²		
Power Source	AC 90~240V, 50Hz/60Hz (Std.) / DC +24V (Opt.)			
Output Signal	DPDT			
Contact Rating	AC 250V, 5A / DC 30V, 5A			
Enclosure	Weather-Proof			
Wetted Parts Material	SUS 316L	SUS 316L + PPS		
Process Connection	PT 1" Screw 50A JIS 10K			
	PBT ; 2-PF 1/2" (F),			
Housing Coble Entry	IP65 (Std.)	AL.; 2-PF 1/2" (F),	AL.; 2-PF 1/2" (F),	
Housing ; Cable Entry	AL.; 2-PF 1/2" (F),	IP66	IP66	
	IP66 (Opt.)			

Amplifier Specification

Module	M-96RFC M-96RFS			
Microprocessor	16 Bit Microprocessor			
Oscillation Frequency	420KHz @ ±10KHz 154KHz @ ±10KHz			
Dielectric Constant	1.5 @ Min.			
Sensitivity (Adjustment)	1pF ~ 80pF	1pF ~ 20pF		
	Measurement Range			
Function (Adjustment)	Relay Delay Time			
Function (Adjustment)	Relay Return Time			
	Relay Out Control (Normal/Reverse)			
Relay Delay Time (Adjustment)	0.5Sec. @ Min. / 1 ~ 10Sec. @ 0.1Sec. Resolution			
Relay Return Time (Adjustment)	0.5Sec. @ Min. / 1 ~ 10Sec. @ 0.1Sec. Resolution			
Relay Contact Out Control	Normal Close @ Default.			
Status Indicator	Bi-Color LED [Green / Red / Orange]			
Detection Indicator	Red LED			
Relay Control Indicator	Green LED			
UART	Monitoring			
Ambient Temperature	-20°C ~ +80°C			

Product Composition

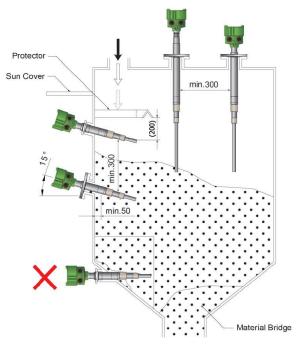


* Flat Type can be used in liquids, but further verification is required at the head office as a sample.



Actual product may have a tolerance slightly.

- **Installation** HCC-96RF-C(S) Series is generally used for high or low alarm with an installation on the side or top of the tank and can be also applied to metallic or synthetic resin tank as there are no restrictions on the material of the tank.
 - Side Mounting Installation
 - If the content has the characteristics of creating an excess sediment layer, the product shall be installed at an angle of about 45 degrees.
 - If the content has a high density, a protector shall be installed at least 200mm above from the probe in order to protect the probe.
 - Top Mounting Installation
 - If the probe length is more than 1000mm, install a fixed bracket insulated at the bottom.
 - Sensing probe shall be installed at least 500mm away from the side of the tank.
- Precautions- If more than one level switch is installed in a tank, the distance between each probeforshall be at least 300mm apart. (If the distance between probes is short, it may beInstallationaffected by the interconnection of the instrument, causing unstable operation.)
 - For side mounting installation, an inactive rod shall be located at least 50mm inside of tank, and it is recommended that the probe be tilted by 15 degrees to the horizontal surface. (A foreign object between the nozzle and the probe may cause malfunction.)
 - Protector shall have sufficient area to protect the sensor from incoming medium and be installed at a distance that does not affect sensor operation.
 - For side mounting installation, the cable entry shall be installed facing the ground to maintain the waterproof function.
 - When installing on the low level, carefully install the dead stock and material bridge.
 - For outdoor installation, it is recommended to install the sun cover to avoid the effects of temperature increases.
 - In case of tank with stirrer, the probe shall be installed at a safe distance from the stirrer.

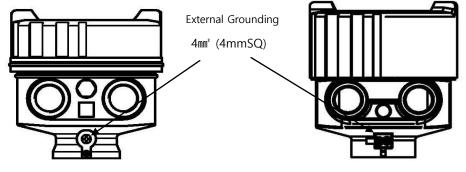


HCC-96RF-C(S) Series Precautions Connect the flanges or bolts with the same specifications. for Attachment Make sure to insert washers between bolts and nuts to prevent loosening. ■ Make sure to insert gaskets between flanges. (Select the gaskets in consideration of the temperature of the content and the pressure inside the container.) Make sure to install the product and the cover before supplying the power. ■ When installing the sensor, avoid shaking or obstacle. ■ Condensation may occur if the temperature of the housing differs significantly from the ambient temperature, so dehumidifier shall be filled or ventilated(gortex) before use. When installing the product, use the tool to tighten it. ■ Connect correctly AC(90~240V) or DC(+24V) power to the power specification. Wiring ■ Make sure to connect the DC power with correct polarity(+, -). Do not connect the wire with the power connected. It provides DPDT output by default, wired COM and N.O terminals when using the high alarm. External grounding shall be completed. Do not bend or extend the sensor randomly. Precautions ■ Make sure to install the product and the cover first before supplying the power. for Use ■ Do not use if the temperature range of the installation exceeds -20°C to +60 °C. ■ Do not use if the protection grade requires a higher grade than its product. (IP66 for AL. Housing or IP65 for PBT Housing) Do not use where vibration is present. **Precautions** ■ Check the level and presence of medium in the tank before removing it. for Removal ■ Wear gloves when removing it, to prevent a burn. Disassemble work shall be done with the power off. ■ Make sure that any O-ring or gasket is not damaged while opening or closing the cover of product. Please do not apply high impact to the product. ■ The grounding has an external and an internal grounding. When connecting to an Precautions external ground, the ground wire shall be 4mm² (4mmSQ). for Grounding ■ The internal grounding wire shall be the same size as the power line, and the size of the internal grounding terminal lug shall be 3.1mm² (3.1mmSQ). If the power line is



Make sure to insert a washer if the terminal lug is removed from ground terminal and then re- connected. (Loosening prevention)

larger than 3.1m², connect the ground wire without terminal lug.



HEAD External Grounding (PBT)

HEAD External Grounding (AL.C)

Maintenance The life span of key parts depends on user's environment and can be used optimally through periodic check. Therefore, regular inspection ensures optimal performance of product, so take regular inspection and maintenance at least every year. Inspection of the appearance of the product shall be visually checked to see if there is any damage, and the attachment of the medium or foreign substances to the sensor will make it worse, so they shall be removed regularly.



Turn off the power of the product for maintenance.

- Failure Check If there is a problem with operation, check the following first.
 - Is power voltage connected correct?
 - Is power voltage supplied according to specifications correct?
 - Is cable wiring correct?
 - Is the Fail-Safe Mode setting correct?
 - Does the green LED turn on?

Safety and

Environment

- Precautions for Use
 - Make sure to connect the product and vessel using required tools for sure.
 - Keep the lock key safe and make sure that it is locked.
 - Do not apply high impact to the product.

Precautions for Wiring

- Make sure to wire contacts correctly.
- Wire and supply the power to the product after checking the specifications.
- Incorrect power voltage may cause damage to the product.
- Pay attention to prevent electric shock.

■ Disposal of Product

- Make sure to separate the amplifier and main unit from housing before disposing the products. Also, the amplifier shall be detached and discard the metal and nonmetallic materials. No part (ex. Mercury switch) has influence on the environment, so no special attention is required.

Marking Product Identification

- The product identification mark is attached onto the housing and shows the model name, serial number, working temperature, working pressure, and matters regarding output. The serial number is a unique manufacturing number for the identification of products.

MODEL CONTACT RATING TAG NO CONTACT FORM SER. NO POWER MAX. PRESS ENCLOSURE MAX. TEMP http://www.hitrol.com Made in Korea	SER. NO	POWER ENCLOSURE
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- Warranty and Service
 and This product is subject to the warranty for 2 years of shipment and unpaid service
 Contact will be provided for any damage found under normal operating conditions. If it is not about the failure of product, the service charge will be payable. You can request A/S at our website or by contacting our headquarters.
 - Headquarters . Factory . Laboratory Contact Number
 ADDRESS: HITROL CO., LTD 141, Palhakgol-gil, Jori-eup, Paju-si, Gyeonggi-do, Korea
 T E L : 031-950-9700 (Headquarters & A/S)
 F A X : 031-943-5600 (Headquarters & A/S)



Setting Guide

RF Admittance Type Level Switch



Doc. no. : Rev0.0 Issued Date : 2020.11.18



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1. M-96RFC Configuration and Function



No	Configuration	Function	
1	TUN.	 Tuning Capacitance in the tank Sensitivity Adjustment 	
2	DT.	 Relay Delay Time Adjustment Time Range: 0.5s, 1s ~ 10s @ Adjustment 0.1s 	
3	RT.	 Relay Return Time Adjustment Time Range: 0.5s, 1s ~ 10s @ Adjustment 0.1s 	
4	Fail Safe Mode	■ Relay Transformation Adjustment N.C ↔ N.O 	
5	DET.	■ Measurement Status LED \bigcirc OFF \rightarrow Red	
6	RLY.	 ■ Relay Status LED ○ N.C: OFF → Green ○ N.O: Green → OFF 	
7	PWR.	■ Power & Status Display	
8	UART	M-96RFS Status Setting and Status Communication Port	
9	Power	■ Power Connector (AC / DC)	
10	Relay Out	■ Relay Contact Out (DPDT)	



2. M-96RFC Setting and Adjustment

■ Initialization Setting Method

□ After installing it on the tank, set it to the initial state for quick response.



Tuning Setting 1

□ When the capacitance value in the tank is lower than the reference value,



[Before Adjusting TUN. VR]



[Adjusting TUN. VR]

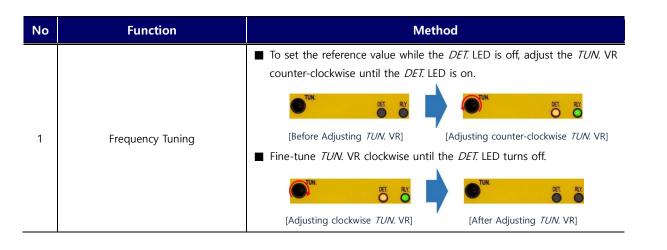


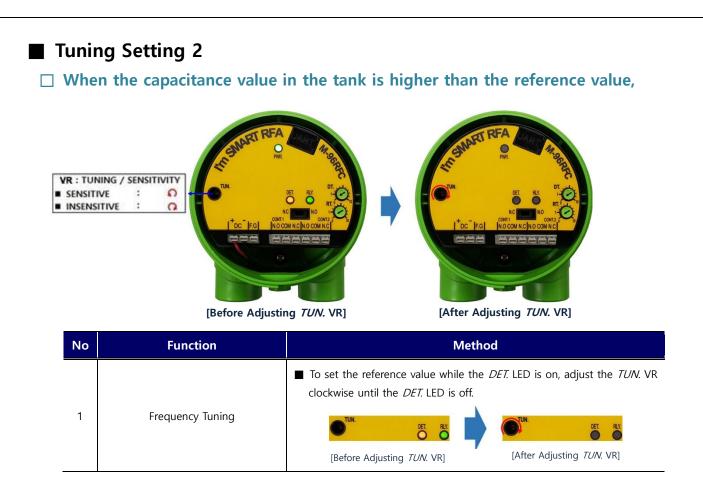
[After Adjusting TUN. VR]

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Sensitivity Adjustment Method

□ You can adjust measurement sensitivity for each environment.



[Before Adjusting Sensitivity by TUN. VR]

[After Adjusting Sensitivity by TUN. VR]

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No	Function	Method
1	Tuning Setting Status	 The <i>TUN.</i> VR state according to the "Tuning Setting" is the most sensitive state. Keep this status for sensitive use.
		 You can adjust the sensitivity by adjusting <i>TUN</i>. VR. Sensitivity Adjustment Method
2	Sensitivity Adjustment	[SENSITIVE]

Relay Time Adjustment Method

□ You can adjust the relay operation time after detecting the measurement.



[Operating Status According to Relay Delay Time]

No	Function	Method
		 Relay Delay Time Time A line to the second sec
1	DT.	■ Time Adjustment Range: 0.5s, 1s ~ 10s @ Adjustment 0.1s

□ You can adjust the relay return time after undetecting the measurement.



[Operating Status According to Relay Return Time]

No	Function	Method
		Relay Return Time
		■ Time Adjustment Range: 0.5s, 1s ~ 10s @ Adjustment 0.1s
1	RT.	



Fail Safe Mode Adjustment Method You can adjust the contact status to Relay Contact N.C.

[Operating Status According to Relay Contact [N.C]]

No	Function	Method
		Relay Contact Out Default Status
		N.C N.C
1	N.C	■ After detecting the measurement, the contact point changes from N.C to N.O.
		LED Status
		DET. RLY. DET. RLY. DET. RLY. DET. RLY. DET. RLY.

□ You can adjust the contact status to Relay Contact N.O.



[Operating Status According to Relay Contact [N.O]]

No	Function	Method
		Relay Contact Out Opposite Status.
		N.C N.O
1	N.O	■ After detecting the measurement, the contact point changes from N.O to N.C.
		LED Status
		DET. RLY.
		Always The Best Solution —
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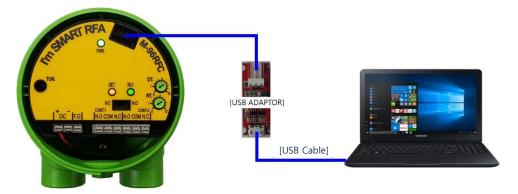
3. M-96RFC UART Monitoring

Monitoring Method

- □ You can only check the state of the adjusted setting values using PC or Smartphone.
- □ The execution method is the same using PC or Smartphone. (Password: 1975)
- □ Run Screen Component: You can check the sensor measurement status, sensitivity setting value, relay setting, etc.

Monitoring Method Using PC

□ Component: PC, USB Cable(typical USB to Micro USB B), UART Adaptor.



[M-96RFC PC UART Component]

01. Sensor value	:	0.041 v
02. Relay delay time	:	0.5 s
03. Relay return time	:	0.5 s
04. Relay contact	:	Normal close
05. Measuring temperature	:	29.0 °C
(Refresh : R, Repeat : RF Return to menu or stop r	?, re	Exit : exit peat : ESC)

[M-96RFC PC UART Run Screen]

01.	Sensor value	:	0.041	~	Current Measurement Voltage (Non-detection: +3V / Detection: 0V)
02.	Relay delay time	:	0.5 s		Relay Delay Time Setup Time State
03.	Relay return time	:	0.5 s		Relay Return Time Setup Time State
ð 4 .	Relay contact	:	Norma	l close	Relay Contact Status
05.	Measuring temperature	:	29.0	Ĵ	Board Temperature
(R R ***	efresh : R, Repeat : RF eturn to menu or stop r *************************	?, `e {*	Exit peat : ******	ESC)	

[M-96RFC PC UART Run Screen Component Function]



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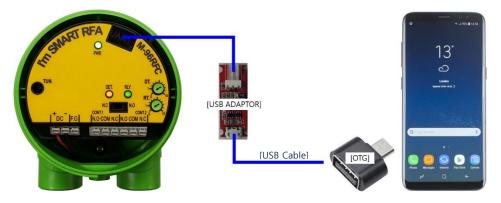
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Monitoring Method Using Smartphone

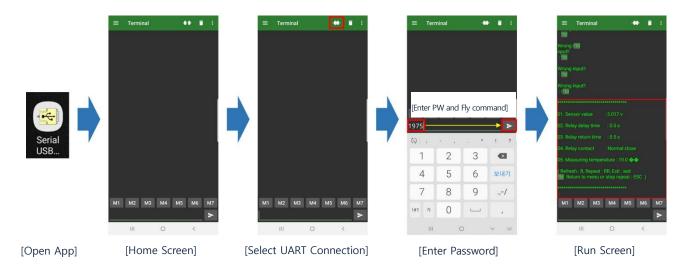
Component: Smartphone(Android OS), OTG, USB Cable(typical USB to Micro USB B),

UART Adaptor..

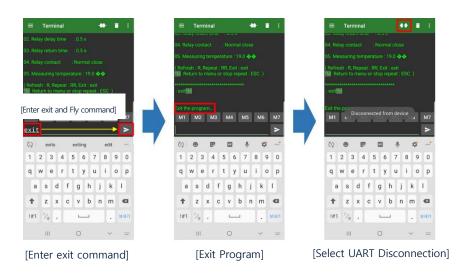
□ App: Refer to "Serial USB Terminal Install Guide".



[M-96RFC Smartphone UART Component]



[M-96RFC Smartphone UART Execution]



[M-96RFC Smartphone UART Exit]

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HCC-96RF-S

Setting Guide

RF Admittance Type Level Switch



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1. M-96RFS Configuration and Function



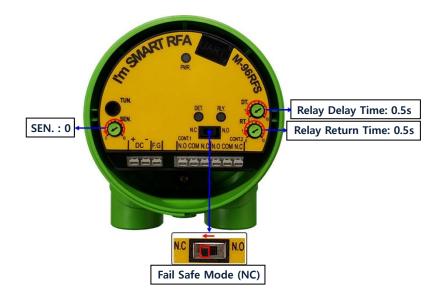
Νο	Configuration	Function			
1	TUN.	Tuning Capacitance in the tank			
2	SEN.	Sensitivity Adjustment			
3	DT.	 Relay Delay Time Adjustment Time Range: 0.5s, 1s ~ 10s @ Adjustment 0.1s 			
4	RT.	 Relay Return Time Adjustment Time Range: 0.5s, 1s ~ 10s @ Adjustment 0.1s 			
5	Fail Safe Mode	■ Relay Transformation Adjustment ○ N.C ↔ N.O			
6	DET.	■ Measurement Status LED \bigcirc OFF \rightarrow Red			
7	RLY.	■ Relay Status LED \bigcirc N.C: OFF \rightarrow Green \bigcirc N.O: Green \rightarrow OFF			
8	PWR.	■ Power & Status Display			
9	UART	M-96RFS Status Setting and Status Communication Port			
10	Power	■ Power Connector (AC / DC)			
11	Relay Out	■ Relay Contact Out (DPDT)			



2. M-96RFS Setting and Adjustment

■ Initialization Setting Method

□ After installing it on the tank, set it to the initial state for quick response.



Tuning Setting

□ Set the default capacitance value in the tank.



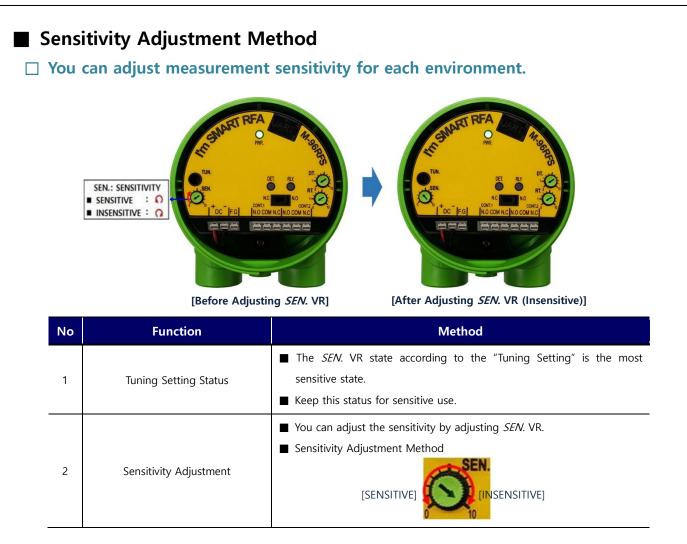
[After tuning the cap trimmer]

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No	Function	Method				
1	Frequency Tuning	 Tune the cap trimmer for setting the default value. Adjust clockwise until <i>DET</i>. LED turns off. 				
2	If the sensing LED does not turn off (High capacitance in the tank)	Adjust SEN. VR slightly clockwise and then readjust the cap trimmer.				



Relay Time Adjustment Method

□ You can adjust the relay operation time after detecting the measurement.



[Operating Status According to Relay Delay Time]

No	Function	Method			
		Relay Delay Time			
		■ Time Adjustment Range: 0.5s, 1s ~ 10s @ Adjustment 0.1s			
1	DT.				



□ You can adjust the relay return time after undetecting the measurement.



[Operating Status According to Relay Return Time]

No	Function	Method				
		■ Relay Return Time				
■ Time Adjustment Range: 0.5s, 1s ~		■ Time Adjustment Range: 0.5s, 1s ~ 10s @ Adjustment 0.1s				
1	RT.					

Fail Safe Mode Adjustment Method

□ You can adjust the contact status to Relay Contact N.C.



[Operating Status According to Relay Contact [N.C]]

No	Function	Method					
		Relay Contact Out Default Status					
1	N.C	N.C N.O					
I	N.C	After detecting the measurement, the contact point changes from N.C to N.O.					
		EED Status					
		DET. RLY.					



□ You can adjust the contact status to Relay Contact N.O.



[Operating Status According to Relay Contact [N.O]]

No	Function	Method				
		Relay Contact Out Opposite Status.				
		N.C N.O				
1	N.O	■ After detecting the measurement, the contact point changes from N.O to N.C.				
		■ LED Status				
		DET. RLY. DET. RLY. DET. RLY. DET. RLY.				



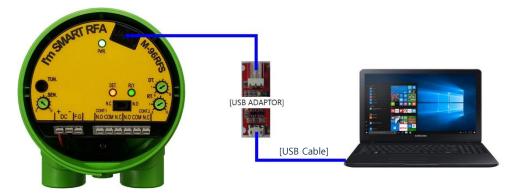
3. M-96RFS UART Monitoring

Monitoring Method

- □ You can only check the state of the adjusted setting values using PC or Smartphone.
- □ The execution method is the same using PC or Smartphone. (Password: 1975)
- □ Run Screen Component: You can check the sensor measurement status, sensitivity setting value, relay setting, etc.

Monitoring Method Using PC

□ Component: PC, USB Cable(typical USB to Micro USB B), UART Adaptor.



[M-96RFS PC UART Component]

*****	****
01. Sensor value	: 3.300 v
02. Sensor adjust	: 1.280 v
03. Relay delay time	: 0.5 s
04. Relay return time	: 0.5 s
05. Relay contact	: Normal close
06. Measuring temperature	: 29.0 °C
(Refresh : R, Repeat : RR Return to menu or stop n	R, Exit : exit repeat : ESC)
***************************************	*****

[M-96RFS PC UART Run Screen]

*****	****	
01. Sensor value	: 3.300 v	Current Measurement Voltage
02. Sensor adjust	: 1.280 v	Sensitivity Threshold Voltage
03. Relay delay time	: 0.5 s	Relay Delay Time Setup Time State
04. Relay return time	: 0.5 s	□ Relay Return Time Setup Time State
05. Relay contact	: Normal close	e 🗆 Relay Contact Status
06. Measuring temperatur	e:29.0 ℃	Board Temperature
(Refresh : R, Repeat : Return to menu or stop	RR, Exit : exit repeat : ESC	
***************************************	****	

[M-96RFS PC UART Run Screen Component Function]



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Monitoring Method Using Smartphone

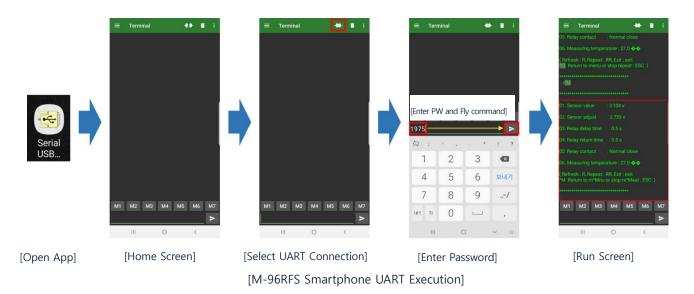
Component: Smartphone(Android OS), OTG, USB Cable(typical USB to Micro USB B),

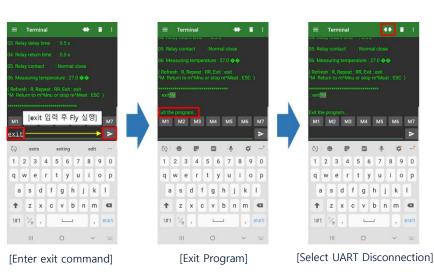
UART Adaptor.

□ App: Refer to "Serial USB Terminal Install Guide".



[M-96RFS Smartphone UART Component]





[M-96RFS Smartphone UART Exit]

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APPENDIX H



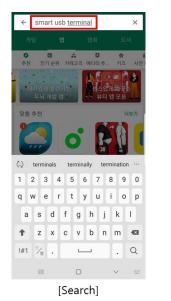
Serial USB Terminal Install & Setting Guide

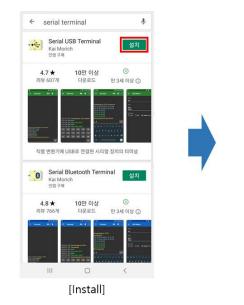
Application : Level Switch / Level Transmitter



Installing Serial USB Terminal App

□ Search and Install a App that "Serial USB terminal" in the App Store.





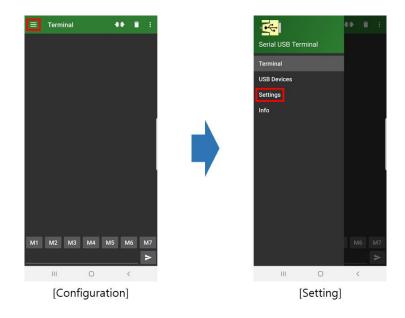
[lcon]



□ Run The Serial USB Terminal Icon

□ Four types of environments must be set up for normal operation of Serial USB Terminal.

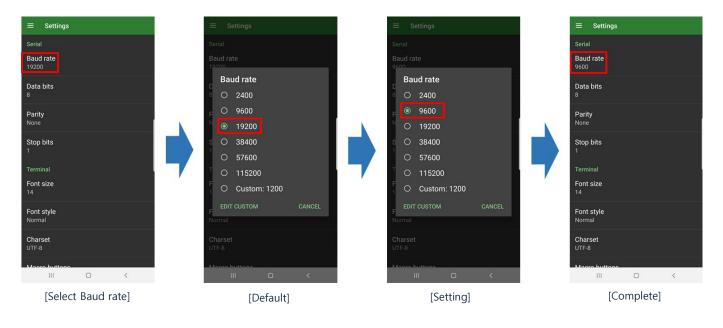
- Serial
- ► Terminal
- Receive
- Send





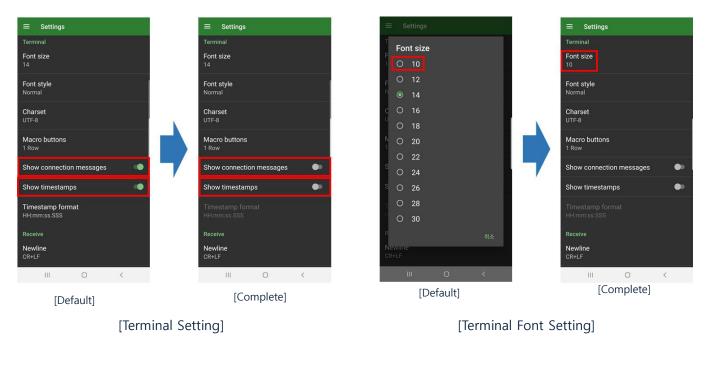
Serial – Baud rate Setting

□ Baud rate : 19200 -> 9600



Terminal - Show connection message / Show timestamps Setting

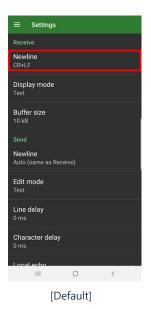
- □ Show connection message : ON -> OFF
- □ Show timestamps : ON -> OFF
- □ The size of the Terminal Font is the size set in the Smartphone.





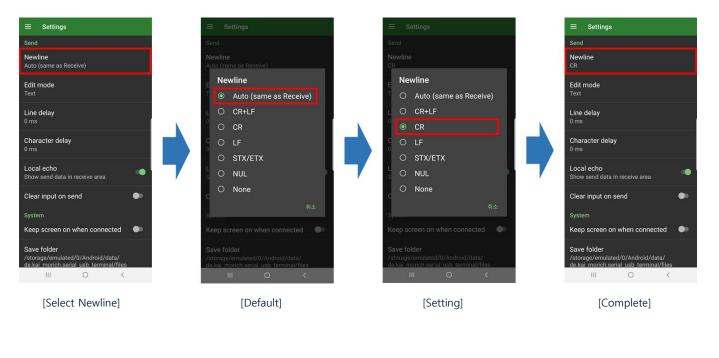
Receive – Newline Setting

□ Newline : CR+LF (Carriage Return + Line Feed) Check



Send - Newline Setting

□ Newline : Auto(same as Receive) -> CR





Send - Character delay Setting

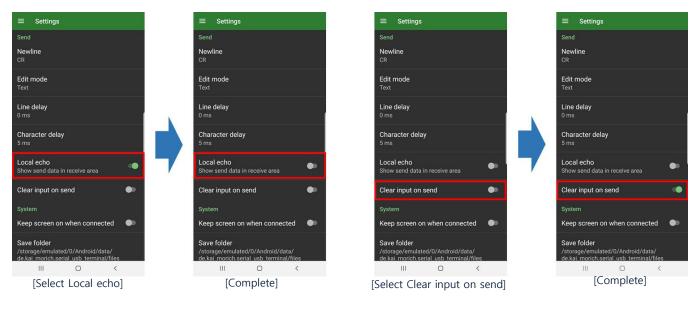
□ Character delay : 0ms -> 5ms

	\equiv Settings		≡ Settings	;	\equiv Settings
Send	Send		Send		Send
Newline	Character delay		Characte	er delay	Newline CR
Edit mode Text	Minimum time between E bytes/characters [ms]. T	consecutive	Minimum ti E bytes/chara	me between consecutive acters [ms].	Edit mode Text
Line delay 0 ms	۲ <mark>.</mark>		5		Line delay 0 ms
Character delay 0 ms	C HELP 0 ms	취소 확인	C HELP 0 ms		Character delay 5 ms
Local echo Show send data in receive area	Local echo		Local echo		Local echo Show send data in receive area
Clear input on send	1 2	3 🛛	1	2 3 💌	
System	4 5	6 완료	4	5 6 완료	
Keep screen on when connected	7 8	9	7	8 9	Keep screen on when connected
Save folder /storage/emulated/0/Android/data/ de.kai_morich.serial_usb_terminal/files	0			0	Save folder /storage/emulated/0/Android/data/ de.kai morich serial usb terminal/file
III O <	III O	~ 📖	III	0 ~	III O (
[Select Character delay]	[Defaul	t]	[!	Setting]	[Complete]

Send – Local echo / Clear input on send Setting

□ Local echo : ON -> OFF

□ Clear input on send : OFF -> ON



[Local echo Setting]

[Clear input on send Setting]

***** For detailed instructions, refer to the manual of each product.

