



RF (RADIO FREQUENCY) TYPE LEVEL SWITCH

FCRF-200

MODELS

Electronic Controller
FCRF - 200 EC



Sensing Probe
FCRF - 200 PR



Special Co-axial Cable
FCRF-200 CC



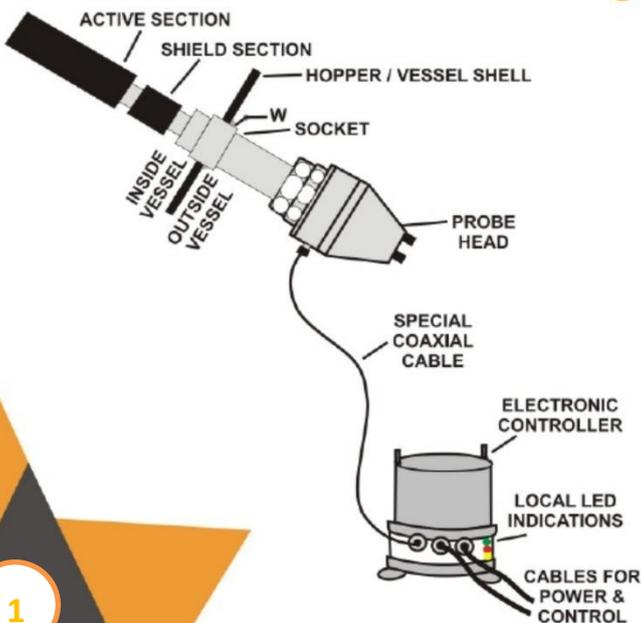
DESCRIPTION OF FERF - 200

For Normal Temp. upto 250°C :
FCRF-200-STD

For High Temp. upto 600°C :
FCRF-200-HT

NOTE : Sensing probe models to be selected as per application.

- **For Solid Material : FCRF 200 STD**
Fly ash, Cement, Food grains, Sand etc.
Temp. : 20°C to 250°C, above 250°C to 600°C use FERF-200 HT
- **For Liquid Material : FCRF 200 INS**
Fully insulated by PVC, Teflon, PTFE for Water, Acid, Alkali, Milk, Oil, Tarcoal, Chemical etc.
Temp. : -20°C to 200°C.
- **For Silo, Bunker, Hopper : FCRF 200 FLX**
Probe length : 500mm to 15000 mm.
- **For coal Handling plant CHP application model : FCRF -200 FLUSH** Disc type, zero insertion probe.



STANDARD TECHNICAL SPECIFICATIONS

1 ELECTRONIC UNIT

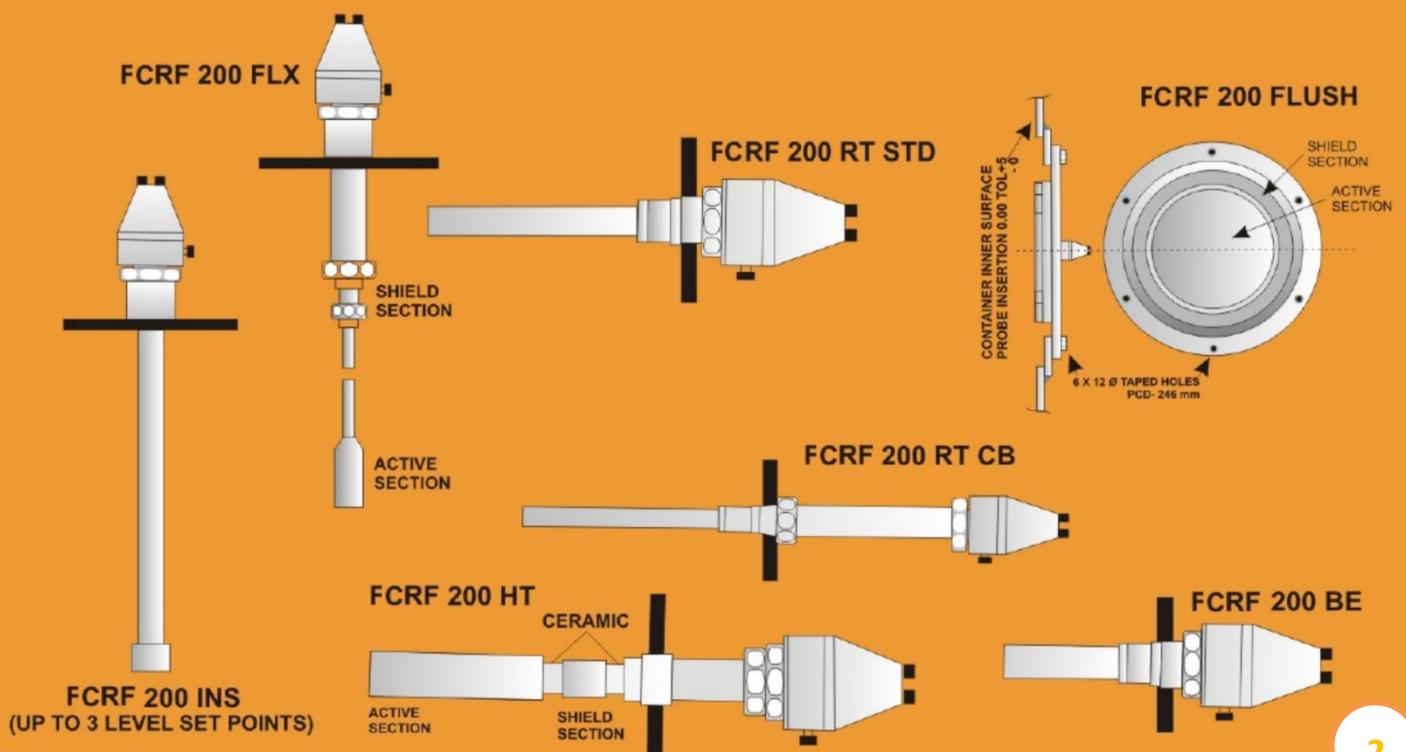
- Solid state, circuitry
- Input supply: 240/110/24 VAC, 50Hz, Single phase or specify.
- DPDT relay output, potential free, rating 5 AMP @ 240 VAC.
- Local LED (Red, Green & Yellow) Indication.
- Cable entry, DC gland or single compression 3/4 ".
- Mounting Fasteners.
- Electrical and other terminal plug and socket type.
- Ingress Protection : IP - 67.
- Enclosure : cast aluminium with industrial grade powder coating.

2 SENSING PROBE

- | | |
|--|--|
| ○ Active : SS-304, SS-316 or SS316 L. | ○ No Electronics in Probe. No moving part. |
| ○ Shield : SS-304, SS-316 or SS316 L. | ○ Temp. : 0°C to 600°C (specify). |
| ○ Process conn : 40NBBSO Socket or Flange. | ○ Insulation : PTFE / CERAMIC. |
| ○ Insertion length : 200 mm to 15000 mm. | ○ IP : 67. |
| ○ Probe head : Cast Aluminium. | ○ Co-axial cable entry : Gland 1/2". |

3 CO-AXIAL CABLE

- 100 Feet Max Length. Remote from electronic unit to probe.



RF (RADIO FREQUENCY) TYPE LEVEL SWITCH

Decodification

RF Code Selection Reference:

A	B	C	D	E	F	G	H	I
---	---	---	---	---	---	---	---	---

A: Relay Configuration

- Single Relay (1)
- 2 Relay with Time Delay (2)
- Customise (3)

B: Model

- STD – FERF-200 STD (1)
- INS – FERF-200 INS (2)
- FLX – FERF-200 FLX (3)
- FLUSH – FERF-200 FLUSH (4)
- RTCR – FERF-200 RT CB (5)
- HT – FERF-200 HT (6)
- INSHT – FERF-200 HT (6)

C: Power Supply

- 110 VAC, 50 Hz (2)
- 220 VAC, 50 Hz (1)
- 20 V AC (2)
- Universal Power Supply (90-250 V AC) (4)

D: Service Temperature

- STD – Standard up to 100°C (1)
- HT1 – High Temp up to 195°7 / 96°C (2)
- HT2 – High Temp up to 200°C (2)
- HT3 – High Temp up to 1000°C (3)

I: Wetted Parts Material

- (1) MS: IS PLATED
- (2) SS.S3304
- (3) SS.SS316
- (4) SS.S316L

F: Probe Insulation Material

- (1) PTFE
- (2) C. Ceramic
- (3) 9. Other

G: Probe Mounting Arrangement

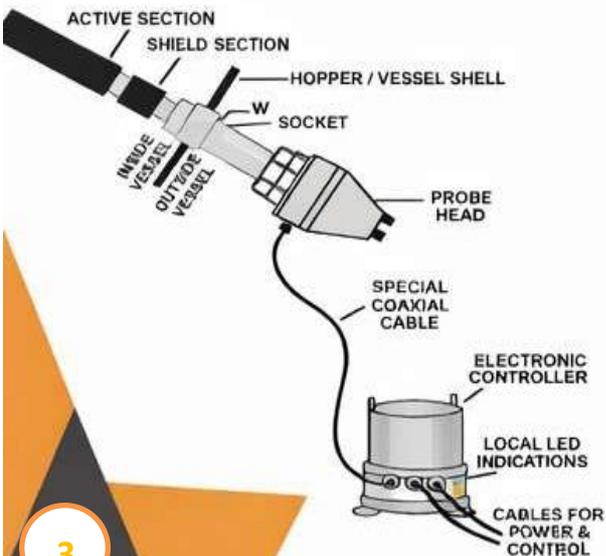
- (1) 1 – Threaded
- (2) E – Flanged
- (2) 0 – Other

H: Sensing Extension Element Type

- (1) RR – Part Insulated Rod Probe
- (2) RF – Full Insulated Rod Probe
- (3) FP – Part Insulated Flexible Probe

I: Probe Type

- (0) ST – Standard
- (1) LS – Lite Study
- (3) DS – Heavy Duty
- (4) SS – Super Strong
- (6) ES – Extra Strong



Note: For any specific requirement, please consult factory.

Commissioning Tips: Rf Level Switch

1. Verify Supplied Items: Please confirm that you have received the following three items in good condition:

- A. Electronic Controller with enclosure
 - B. Sensing Probe
 - C. Co-axial Cable or PTFE Cable supplied by us (Use of any other cable is strictly prohibited.)
-

2. Co-Axial Cable Preparation & Termination: Cut the required length of co-axial cable and remove insulation from both ends carefully. You will find three different types of wires:

- (A) Outer Wire (multi-strand)
- (B) Shield Wire
- (C) Centre Wire (multi-strand)

Termination details:

- Outer Wire → Connect to terminal 'G'
- Shield Wire → Connect to terminal 'SH' (Shield)
- Centre Wire → Connect to terminal 'PR' (Probe)

Important:

- 'G' = Ground
- 'SH' = Shield
- 'PR' = Probe

Stickers are provided on all terminal blocks at both the electronic unit and probe ends for reference. Ensure: No open wires, No short circuit between G, SH, and PR & Proper insulation is used.

3. Probe Installation: Install the suitable probe in the hopper or vessel as per application.

Complete wiring up to the electronic unit using the supplied co-axial cable.

Use proper cable glands for secure installation.

4. Electronic Unit Installation: Install the electronic controller in a safe, dry, and covered area at man- height location for easy access and maintenance.

5. Power Supply: After completing the co-axial connections at both ends, apply the appropriate power supply:

- 110V AC
 - 220V AC
 - 24V AC (As specified in your Purchase Order or Data Sheet.)
-

6. LED Indications: When power supply is ON and hopper is empty:

- Green LED should glow.
- Yellow LED should glow.

If Yellow LED does not glow, check wiring connections.

- Green LED: Indicates no material at sensing probe.
- Yellow LED: Indicates power supply ON and proper probe connection.
- Red LED: Glows when probe is covered by material.

Important: If 'PR' and 'G' are shorted together, the Yellow LED will turn OFF.

7. Output Contacts: Use NO/NC contacts according to your system requirement.

Available:

- 2 NO contacts
- 2 NC contacts

Calibration Procedure:

A blue-coloured potentiometer is provided near the 'CAL/OPN' switch on the PCB.

1. Set the CAL/OPN switch to 'CAL' mode during calibration.
2. Adjust the blue potentiometer slowly:
 - Turn clockwise → To observe Green LED (Hopper empty or material below probe)
 - Turn counter-clockwise → To observe Red LED (Hopper full or probe covered by material)

Note: Yellow LED should always remain ON.

For accurate calibration:

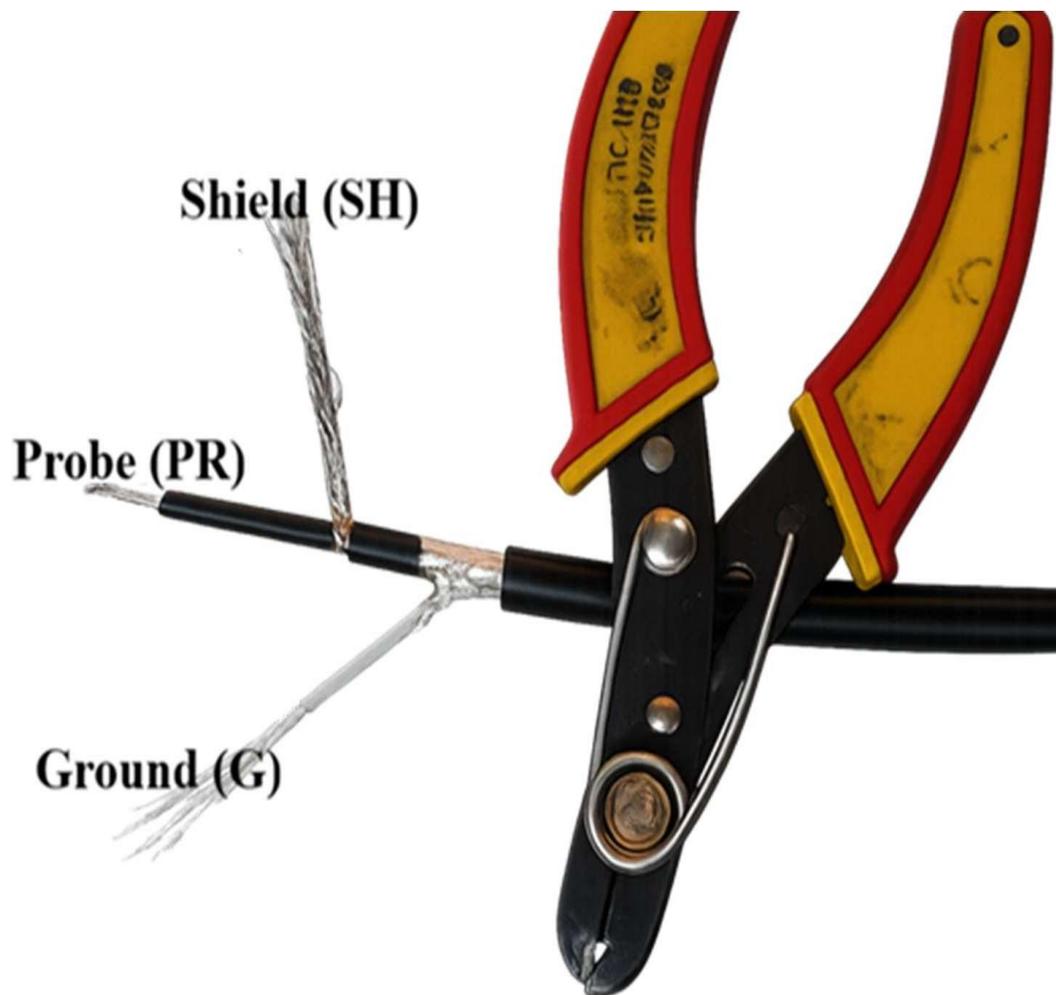
- Fill and empty the hopper once or twice.
- Repeat the process to ensure proper adjustment.

After satisfactory calibration:

- Close the enclosure housing properly.
 - Ensure no water or dust enters the electronic controller.
- Calibration is now complete.

Additional Instructions:

- Always use Pin Type Lugs for all connection points to ensure firm and reliable connections.
- The same connection practice applies to both probe end and electronic unit.



Installation Operation & Maintenance Manual: Rf Level Switch (Model FCRF- 200 series)



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Radio Frequency Level Switch

For Granular Materials & Liquids

1. Introduction

A. Application

This manual provides instructions for the RF-based Level Control System designed to monitor material level at a preset point inside a vessel. The output relay contacts can be used to operate alarms, pumps, conveyors, or other control devices.

The FCRF-200 Series Point Level Switch utilizes advanced RF electronics to deliver precise and reliable performance, independent of:

- Moisture content
- Material temperature
- Coating formation
- Material in transit
- Suspended dust

The instrument can be used with a wide range of materials including:

- Conductive and non-conductive materials
- Solids and liquids
- Corrosive materials
- Materials that tend to coat the probe

All such materials can be accurately measured and controlled.

B. Configuration

The RF Level Switch consists of:

- Electronic Controller
- Sensing Probe
- Special Coaxial Cable (connecting the controller to the probe)

The controller transmits RF signals to the probe and measures changes in electrical parameters caused by the presence or absence of material inside the vessel. The sensing probe itself contains no electronic components. The RF signal varies depending on the change in medium (application material) that establishes cohesive inter-particle contact up to the vessel body, which acts as the reference ground.

Material in transit or suspended particles that do not have cohesive contact up to the vessel shell are ignored by the system. The portion of the vessel selected for probe mounting does not act as reference ground, provided the shield section is physically positioned between the active section of the probe and the vessel wall at the mounting point. The variation in RF signal is used to activate the output relay, and the relay contacts are available for external control applications. To protect the equipment from electrostatic charges that may develop inside the vessel or hopper, an Electrostatic Charge Protector is provided inside the Probe Head. Detailed drawings of the Electronic Unit, Sensing Probe, and Electrostatic Protector, along with connection details, are included in Section V of this manual.

C. Equipment Specifications

1. Electronic Controller (Model: FCRF-200 EC)

- Supply Voltage: 220/110/24 VAC or DC (as specified)
- Voltage Sensitivity: $\pm 10\%$
- Frequency: 50/60 Hz $\pm 5\%$ (AC Supply)
- Combined Voltage & Frequency Variation: $\pm 10\%$
- Power Consumption: Approx. 3 VA
- Ambient Temperature: -10°C to $+60^{\circ}\text{C}$ (or as specified)
- Output Relay: 2 sets DPDT (potential free contacts)
- Contact Rating: 5 Amps @ 220 VAC (non-inductive)
- Maximum Cable Length: 20 meters (unless approved by F&CS)

LED Indications:

- Green LED \rightarrow Normal Level
- Red LED \rightarrow Alarm Level
- Yellow LED \rightarrow Probe Healthy

Yellow LED behaviour:

The Yellow LED turns OFF if:

- The probe or probe cable is short-circuited to ground, or
- The power supply is OFF.

It is not affected by a loose or open probe cable connection. Therefore, proper probe and cable connections must always be ensured.

- Maximum Cable Length (Electronic Unit to Probe): 20 meters (unless confirmed by Flow Control)
- Only special cable supplied by Flow Control must be used.

2. Sensing Probes: Refer to product catalogue for probe models and specifications.

3. Probe Head:

For use with RF-200 Series probes:

- Construction: Cast Aluminium
- Probe Connection: $\frac{3}{4}$ " BSP
- Cable Gland / Conduit Connection: $\frac{1}{2}$ " BSP
- Dimensions: Refer to drawings in Section 5
-

4. Electrostatic Protector:

- Mounted inside probe head
- Connected directly to probe active section

5. Cable

For connection between Probe and Electronic Controller:

- Type: Special Coaxial Cable (F&CS make only)
- Conductor: Copper
- Insulation: PVC / PTFE
- Connections:
 - Centre Wire → Probe (PR)
 - Middle Shield → Shield (SH)
 - Drain Wire → Ground (G)

2. Installation

A. Receiving & Inspection

- Upon receipt of the equipment:
- Immediately inspect the contents of the shipping container.
- Compare items with the packing list.
- Check for any transit damage.
- In case of discrepancies or damage, contact Flow Control immediately.

B. Electronic Controller Installation

1. Location Guidelines

The following factors must be considered when installing the electronic controller:

- Location: Mount on a rigid structure near the probe location, at a convenient height for operation and maintenance.
- Temperature: Ambient temperature must not exceed -10°C to $+60^{\circ}\text{C}$.
- Environment: Protect from direct sunlight, rain, and snow.
- Vibration: If excessive vibration is expected, select an alternate mounting location or use vibration-absorbing pads.
- Distance: Keep the cable length between probe and controller as short as possible and not exceeding 20 meters.
(Consult FCPL for longer cable lengths.)

2. Cable Connections

Follow wiring diagram provided in this manual.

Ensure:

- No loose connections
- No cable damage
- No risk of short circuit
- Proper mechanical protection for cables

C. Probe Location & Installation

Consider the following while installing the sensing probe:

- 1) Ensure the material will cover the active section of the probe at the desired switching level.
- 2) The shield section must project freely inside the vessel (minimum 50 mm / 2 inches for rod or flexible probes).
- 3) Ensure sufficient external clearance for installation and wiring. For thermally insulated vessels, use a lagging extension equal to insulation thickness.
- 4) Flush-mounted probes must be flush with the inner surface or project inside by a maximum of 5 mm. They must not remain recessed.
- 5) The probe must be mounted at $90^\circ \pm 15^\circ$ to the vessel wall unless otherwise approved.
- 6) Maintain maximum possible clearance between the active section and any grounded metal parts. Preferably mount along the centerline of the wall/plate.
- 7) Use proper lugs and glands. Ensure conductors are fully insulated from each other.
- 8) Probe length selection should consider angle of repose (for solids), roof thickness, nozzle height, etc. As a rule, horizontal distance from fill point should be less than probe insertion length.
- 9) For flexible top-mounted probes, mount as close as possible to the vertical center axis of the filling point and away from side walls.
- 10) Ensure proper grounding continuity between vessel body and electronic controller.
- 11) Do not install additional metallic covers (pipe/channel/plate) around the probe inside the vessel. This may cause malfunction. For large particles (side mounting), use disc-type flush-mounted probes.
- 12) Only F&CS specified coaxial cable must be used. For special applications, consult F&CS.

D. Electrostatic Charge Protector

An electrostatic charge protector is provided for applications where static buildup may occur.

- It is mounted inside the probe head.
- It is connected directly to the active section of the probe.
- Probe cables from the electronic unit are connected to terminals on this protector board.

E. Wiring

1. Probe Cable Connections

F&CS supplies the coaxial cable for probe connection.

Connections at both ends (controller and probe):

- Centre Wire (CW) → PR
- Middle Shield (MW) → SH
- Drain Wire (DW) → G

Only F&CS specified cable must be used for RF signal transmission.

2. Power Connections

Power supply connections (as specified) must be made directly to the terminal block inside the electronic controller.

Due to low power consumption (3 VA), 1.0 mm² wire may generally be sufficient. However, always follow local electrical regulations.

3. Output Connections

Output relay connections are made to terminal blocks inside the controller.

- Two (2) changeover, potential-free contacts
- Rated 5 Amps @ 220 VAC (non-inductive)

Output wiring must be compatible with the intended load and must not exceed relay rating.

3. OPERATION

A. Start-Up Checklist

Before energizing the system, ensure that all of the following conditions are satisfied:

1. Electronic Unit

1. Ambient temperature is within the specified range (–10°C to +60°C).
 2. The electronic unit is installed at a convenient and accessible height.
 3. The unit is protected from direct sunlight, rain, and snow.
 4. All mounting fasteners are properly tightened.
 5. Proper earthing is connected to both earthing terminals of the electronic unit.
 6. The supply voltage matches the specified rating on the nameplate/terminals.
 7. The cable used between the electronic unit and probe is F&CS supplied/specified, and the length does not exceed 20 meters (unless approved).
 - Centre wire connected to “PR”
 - Middle shield connected to “SH”
 - Drain wire connected to “G”
 8. Proper cable glands are used.
 9. Suitable cable lugs are provided at both ends.
 10. All cables are properly dressed and routed through trays/conduits to prevent future damage or disconnection.
-

2. Probe

1. Probe is mounted at $90^\circ \pm 15^\circ$ to the vessel wall/plate.
2. No metallic hood, canopy, or pipe cover is installed over or near the probe inside the vessel.
3. Adequate clearance is maintained from other metal parts or vessel walls.
4. Shield section projection inside the vessel is at least 50 mm (2 inches).
5. For flexible probes mounted from the top, ensure the distance from the fill point is less than the probe length.
6. For flush-mounted probes, ensure they are either flush with the inner vessel surface or project inside by a maximum of 5 mm (uniformly around the probe).
7. Verify electrical continuity between probe ground terminal and vessel/plant earthing grid.

After verifying the above conditions, switch ON the supply voltage.

The Yellow LED and either the Green or Red LED should glow.

Calibration Procedure

1. Ensure the material level is well below the probe.
2. Set the “CAL/OPN” switch to the “CAL” position.
3. Observe the local LED indications:
 - The Green LED should glow.
 - If not, turn the adjustment potentiometer clockwise (CW) until the Green LED turns ON and the Red LED turns OFF.
4. Slowly turn the potentiometer counter-clockwise (CCW) while counting the number of turns until the Red LED just turns ON.
5. Turn the potentiometer slightly clockwise again to preload the setting.
6. Raise the material level above the desired operating point and verify that the Red LED glows.
7. If the unit does not respond correctly, reduce the preload setting and repeat the process.
8. Verify calibration once again by varying the material level.
9. After satisfactory operation, set the “CAL/OPN” switch back to the “OPN” position.

Calibration is now complete.

4. Maintenance

A. Routine Maintenance

The F&CS RF-200 Series instruments are designed for long-term, maintenance-free operation.

- No moving parts are present except the output relay.
- The sensing probe contains no electronics or sensitive components.

Under normal operating conditions, no routine internal maintenance is required.

B. Troubleshooting

1. Electronic Controller

- Verify the supply voltage at the terminals.
- If voltage is correct, the Yellow LED and either Green or Red LED should glow.
- If not, check the fuse (50 mA rating).

Functional Test

1. Disconnect the probe cable (centre, shield, and ground wires) at the electronic unit. Keep the power supply ON.
2. Hold two screwdrivers by their insulated handles.
3. Touch one screwdriver to terminal “G” and the other to terminal “PR.”
4. Touch the metallic portions of both screwdrivers simultaneously with your fingers.
5. If the relay actuates and de-actuates when removing and re-touching the screwdriver at terminal “PR,” the electronic controller is functioning properly. Proceed to probe checking.

Voltage Test

With probe cable disconnected and power applied:

Measure using a VOM set to 20 VDC range:

- Probe to Ground (PR to G)
- Shield to Ground (SH to G)

Expected readings:

- Both values should be between 2 to 5 VDC.
- PR to G should be 5–10% lower than SH to G.

If results are not within range, the electronic controller may be faulty and should be returned to F&CS for service.

2. Probe

a. Reconnect the coaxial cable to the electronic unit.

b. With material level below the probe, measure:

- Probe to Ground
- Shield to Ground

Values should be within $\pm 20\%$ of the readings obtained during controller testing.

c. With material level above the probe, repeat the measurements.

Values should be within $\pm 10\%$ of the previous readings.

d. If readings are correct, verify calibration as described in Section III.

e. If readings are incorrect, proceed with resistance testing.

Resistance Test

Disconnect cable at probe and remove electrostatic protector (probe remains mounted).

Using VOM in resistance mode, measure:

- Probe to Shield
- Shield to Ground
- Probe to Ground

All readings should be greater than 1 Mega Ohm when probe is uncovered.

If not:

- Remove probe and repeat measurement.
 - If still incorrect, contact F&CS.
-

3. Probe Cable

Using VOM:

a. Disconnect cable at both ends.

b. Measure resistance between Centre Wire (CW) and Middle Shield (MW):

- Should read infinite (open circuit).

c. Short CW and MW at probe end and measure at controller end:

- Should read zero (short circuit).

d. Repeat steps for MW and Ground Wire (DW).

If readings are incorrect, check for loose termination or cable damage. Replace cable if necessary.

4. Output Circuit

The output circuit consists of two changeover contacts connected to terminal blocks.

- Relay actuation may be heard as an audible click.
 - Using a VOM (resistance mode), measure between NC and COM terminals.
 - Reading should change from low resistance to infinite when material contacts the probe or when terminal "PR" is touched.
 - LED indication should change from Green to Red accordingly.
-

C. Factory Assistance

If problems persist or are not covered in this manual:

Contact F&CS Service Department with complete details using the Complaint Format provided in Appendix B.

Include:

- Model and serial numbers
- Application details
- Voltage readings
- LED status
- Installation conditions

F&CS will provide technical guidance or arrange for service support if required.



To:
Flow & Control System Pvt. Ltd.
Email: service@flowcontrol.co.in

1. Customer Details

Field	Details
Company Name	
Project Name	
Address	
Contact Person	
Designation	
Phone No.	
Email	
Reference No.	
Date	

2. Instrument Details

Field	Details
Model	RF-200 Series
Serial Numbers	From _____ To _____
Total Quantity	
Supplied During (Month/Year)	
Supplied Directly / Through Dealer	
Application	
Mounted On (Vessel Name)	
Installation Date	
Commissioning Date	

3. Problem Description

Sl. No(s). Affected: _____

Detailed Description of Problem:

6. Electronic Unit (EU) Verification

Please tick (✓) as applicable and provide readings:

Parameter	Status / Reading
Proper Earthing Connected	YES / NO
EU Protected from Sun/Rain/Snow	YES / NO
Ambient Temperature within 10°C to 60°C	YES / NO
Coaxial Cable used is F&CS Make	YES / NO
Centre Wire connected to "PR"	YES / NO
Shield connected to "SH"	YES / NO
Drain Wire connected to "G"	YES / NO

Functional Test

When probe connection is disconnected and terminal "PR" is touched manually:

- Relay Actuation Observed → YES / NO
- LED Changes (Green ↔ Red) → YES / NO

7. Voltage Measurements (With Supply ON)

Measurement	Probe Connected (VDC)	Probe Disconnected (VDC)
PR to Ground		
SH to Ground		
Yellow LED Glowing in All Conditions	YES / NO	

8. Sensing Probe Details

Parameter	Details
Probe Type	Rigid / Flexible / Flush
Probe Length	_____ mm
Insulation Type	PTFE / Ceramic
Mounting Type	Threaded / Flanged
Connection Size	
Active Section Length	_____ mm
Shield Projection inside Vessel (>50 mm)	YES / NO
Proper Ground Continuity Verified	YES / NO

9. Probe Cable Verification

Test	Result
CW to MW (Open Circuit Test)	OK / NOT OK
CW to MW (Short Test)	OK / NOT OK
MW to Ground (Open Test)	OK / NOT OK
MW to Ground (Short Test)	OK / NOT OK

Declaration:

We confirm that the above checks have been performed at our end.

Signature: _____

Name: _____

Company Seal: _____

Appendix A

Installation Checkpoint Checklist (Recommended to complete before commissioning)

1. Electronic Controller Installation Checklist

Sr. No.	Checkpoint	Status (✓/✗)	Remarks
1	Mounted at convenient height		
2	Protected from sunlight/rain/snow		
3	Ambient temperature within range		
4	Proper earthing connected		
5	Correct supply voltage applied		
6	F&CS specified coaxial cable used		
7	Cable length ≤ 20 meters		
8	PR, SH, G connections correct		
9	Proper cable glands used		
10	Proper lugs provided		
11	Cable routing secured (tray/conduit)		

2. Probe Installation Checklist

Sr. No.	Checkpoint	Status (✓/✗)	Remarks
1	Probe mounted 90° ±15°		
2	Active section positioned at required level		
3	Shield projection ≥ 50 mm inside vessel		
4	Adequate clearance from metal parts		
5	No metallic cover around probe		
6	Flush probe correctly aligned (if applicable)		
7	Flexible probe positioned near filling axis		
8	Ground continuity verified		
9	Proper termination with lugs & glands		
10	Electrostatic protector properly connected		

3. Pre-Start Electrical Check

Sr. No.	Checkpoint	Status (✓/✗)	Remarks
1	Yellow LED ON		
2	Green/Red LED functional		
3	Relay click audible		
4	Output wiring within rating		
5	Calibration verified		

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MSA



एनटीपीसी-सेल पावर कम्पनी लिमिटेड
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Rashtriya Chemicals and Fertilizers Limited



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