

FLOAT-CONTROLLED SOLENOID LIQUID LEVEL CONTROL PANEL

Model Code: DK-SSKP

This control panel is designed for automatic and manual operation of liquid tank level control using float switch inputs. It drives 24VDC solenoid valves based on input signals and provides auxiliary status outputs through dry contact relays. Suitable for industrial process control applications.



Specification

Panel Power Supply: 220VAC, 50/60 Hz

Control Voltage: 24VDC (Via internal power supply)

Enclosure Protection: Suitable for Outdoor Installation, Equipped with Sealing Gasket

Output Feedback: Two Auxiliary Dry Contact

Dimensions: 200 * 300 * 120 mm (Width, Height, Depth)

Overcurrent Protection: Automatic Breaker

Control Mode: Automatic || Manual

Mounting Type: Wall - mounted (Screw type)

Operating Logic

When suitable supply voltage is applied to the panel, the On/Off button becomes powered. Pressing the On button initiates system operation, and the Operating mode indicator LED is activated. The rotary selector switch allows the user to choose between **Automatic** and **Manual** operation modes.

Manual Mode:

In this mode, the float switch is bypassed. The solenoid valve is energized, allowing fluid to begin flowing. Since the float switch is disabled in this mode, fluid flow must be observed manually. Therefore, **caution is advised during manual operation** to avoid overflow or spillage. Manual Indicator Led is turned on by control panel to demonstrate the system is manual mode

Automatic Mode

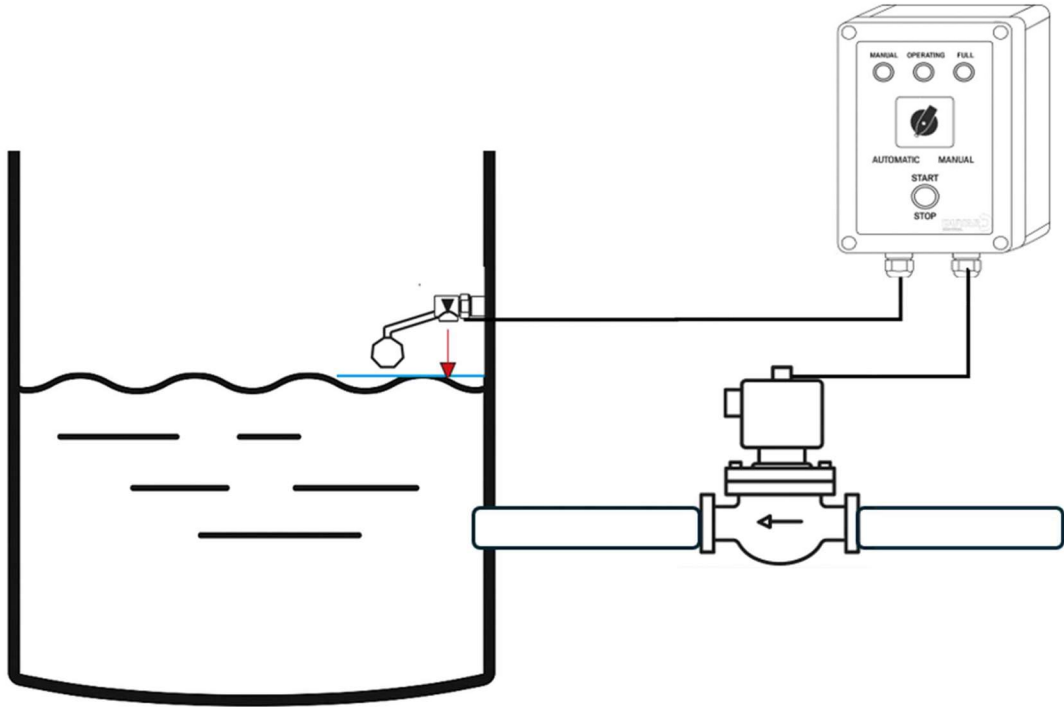
In automatic mode, the float switch is active. The solenoid valve is energized, and fluid begins to flow only as permitted by the float switch.

When the fluid level reaches its upper limit, the float sends a signal to the control panel. The solenoid valve then deactivates and remains off until the fluid level drops again.

Indicator LEDs

- **OPERATING LED:** Turns on when the on button is pressed, it indicates the panel is energized.
- **MANUAL LED:** It indicates that the panel is in manual mode.
- **FULL LED:** Turns on when the tank is full, indicating that the fluid level has reached its upper limit.

This system ensures automatic or manual control of fluid level based on the selected mode and provides visual indicators for operation and tank status.



Terminal Configuration

No	Function	Type
T1	220V AC Phase (L)	Power
T2	220V AC Neutral (N)	Power
T3	Ground Connection	Power
T4	Reserved	Not Used
T5	Reserved	Not Used
T6	Float Switch A In	Input
T7	Float Switch B In	Signal
T8	Solenoid Valve Control	Output
T9	Solenoid Valve Gnd (-)	Power
T10	Manual Valve Control	Output
T11	Auxiliary Contact 1	Output
T12	Auxiliary Contact 2	Output



Warnings

⚠ General Safety Warnings

To ensure safe and proper operation of this system, the following rules must be strictly followed:

⚡ Electrical Safety

- Installation must be carried out by authorized and trained personnel only.
- All wiring connections should be thoroughly checked before applying power to the panel.
- Never work on the system while it is energized. Always ensure the power is completely disconnected.
- Proper grounding must be established in accordance with electrical standards.

🔧 Installation and Mounting Safety

- The panel must be mounted in a dry, dust-free, and vibration-free environment.
- Cable entries should be sealed tightly using appropriate cable glands to prevent ingress of dust and water.
- Only compatible voltage and current ratings should be used with the device.

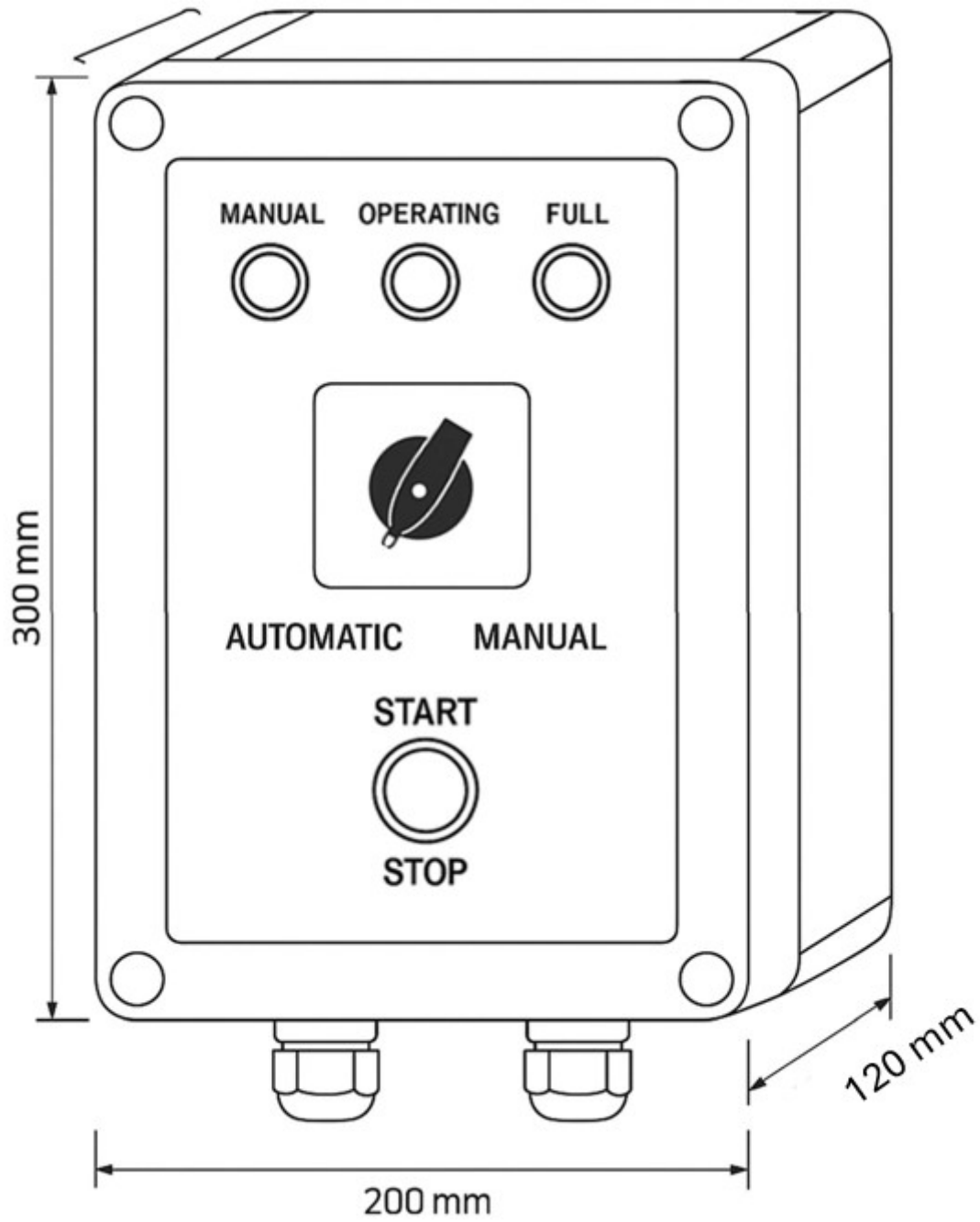
▶ Operation and Usage Safety

- In manual mode, the system bypasses automatic float control. Fluid levels must be monitored visually by the user.
- Use caution in manual mode to avoid overfilling or overflow.
- In automatic mode, ensure float switches are fully functional and securely installed.

🔧 Maintenance and Servicing

- Maintenance must only be performed when the panel is completely de-energized.
- Periodically inspect and tighten any loose terminal connections.
- Any faulty components such as relays, float switches, or solenoid valves must be replaced immediately.

Technical Dimensions





Notes and Disclaimers

- This datasheet provides **general technical information** and **connection guidelines** for the product.
- Users must **follow the instructions** herein during installation and commissioning.
- Product **specifications and design** are subject to change without prior notice.



Technical Support & Contact

For detailed documentation, updates, and technical assistance, please contact us:

-  **Email:** info@duyarkontrol.com
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