



IST-203 Hot Cutover Tool

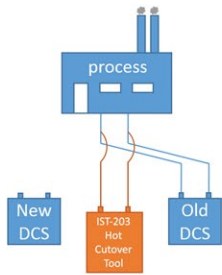
Takes over and simulates 0(4)-20 mA loops during active process conditions

The IST-203 Hot Cutover Tool is designed to take over an active 0(4)-20 mA loop from a control system, e.g. DCS or PLC, allowing the user to perform a hot cutover control system migration without influencing the process. The IST-203 guides the technician through the hot cutover process, minimizing human errors and risks while providing maximum control.

Features

- Improved efficiency, safety and control during PLC or DCS migrations
- Software guided process
- Manual offset control during take over
- Improved Check Connection and Match Output features
- Step-by-step migration
- Up to 8 hours battery power + backup battery
- MODBUS TCP support
- HART transparent
- 8 lines LCD display with LED backlight

Simplified application flow

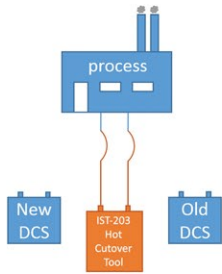


1. Connect the device

Connect the device to the loop in parallel with the DCS.

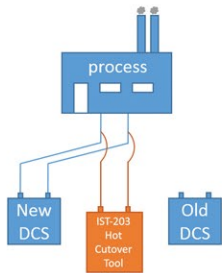
2. Sample Mode

When take-over is selected in the main menu, the device will measure and store the loop current. The check connection feature can verify the loop connection.



3. Loop Take-over

In loop take-over, the hot cutover tool has taken over the control loop. Any changes made to the DCS after entering take-over mode will have no effect on the loop. The old DCS can be disconnected from the loop and the new control system can be connected. During take-over mode, the offset control function can be used to adjust the loop values if necessary.



4. Match Output

To avoid any offset in the loop when ending take-over mode, the new DCS should be set to the same value as the old DCS. The new DCS output can be changed until it matches the old DCS output - the tool will absorb any offset generated.

5. End Take-over

When the new DCS is connected, working properly and the output matches, take-over mode can be ended. At that point, the new DCS will take control of the loop. The hot cutover tool can now be disconnected.

Specifications

Max. loop voltage: 24 V
 Loop current: 0(4)-20 mA (limited at 27 mA)
 Loop load: Max. 1200 Ω (20 mA at 24 V)

Battery

Charger: 100-240 VAC charger
 Battery: 8 hours continuously use on main battery
 1 hour backup battery

Interface

Interface: Modbus TCP
 HART transparent
 Connections: Loop connector
 Charger connector
 Network connector
 Currentclamp connector
 Display: 128 X 64 pixel LCD display with LED backlight and 8 lines
 Status LED: 1 green LED - Active MODBUS connection
 1 orange LED - Active Takeover process
 1 red LED- Battery status
 1 red LED- System status
 Buttons: 5 buttons (up, down, left, right, center)

Operating

Operating temperature range: 5°C - 40°C

IST-20X Hot Cutover Product Line

The IST-203 is based on many years of experience in the field of DCS migrations and forms the fourth generation in a successful product line. The IST-203 is the most significant version update in the IST-20X hot cutover family. While the cutover concept remains the same, the IST-203 comes with a software guided take over process, significantly reducing the risk of human error. Other new key-features are the connection check, the output match, a MODBUS connection, a bigger LCD to display more critical information and more battery capacity with emergency back-up.

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