

SECTION Q

REMOTE LEVEL SIMULATION

Revision Date: 4-30-24

LEVEL SIMULATION - Analog Level Input

The Level Simulation feature is provided to allow an operator to temporarily take manual control of the Level Input used by the Controller to control the pumps and provide high and low level alarms.

The Level Simulation discussed here is what is used when the Level Input Select is set for the Analog Level Meter ALM1 (Parameter P.22 = 1), or set for Remote Control of the level (Parameter P.22 = 4).

The Level Simulation starts from the actual level displayed prior to entering the Level Simulation mode.

If you do not exit the Level Simulation mode, normal operation will resume automatically 60 seconds after the last time a new value was entered for the simulated level.

When performing Level Simulation from SCADA through one of the communication ports, the operator is only permitted to perform the Level Simulation when the communication port being used is "UNLOCKED". See Section S.

Performing Level Simulation Remotely

To Start Level Simulation: Set Modbus Coil 625 (Register 40040 Bit 0) to "1".

To Change Simulated Level: Enter the desired Simulated Level into Parameter rSLn.

To End Level Simulation: Clear Modbus Coil 625 (Register 40040 Bit 0) to "0".

User / Operator Info.	SCADA	Description of Parameter
Parameter	Register Address	
rSLn	42001	Remote Simulated Level Input Note: When the Level Simulation is not active Parameter rSLn will display the value from the Analog Level Meter ALM1 (ALd.1) with Parameter P.22 = 1, or the Remote Control Level Input Parameter rcLn with Parameter P.22 = 4.
To activate the Level Simulation mode set Modbus Coil 625 (Register 40040 Bit 0).		

LEVEL SIMULATION - Level Probe Input

The Level Simulation feature is provided to allow an operator to temporarily take manual control of the Level Input used by the Controller to control the pumps and provide high and low level alarms.

The Level Simulation discussed here is what is used when the Level Input Select is set for the Level Probe Meter LPM1 (Parameter P.22 = 2). The operator's changes to the simulated level are made in increments equal to the Level Probe Meter Electrode Spacing (Parameter P.27).

The Level Simulation starts from the actual level displayed prior to entering the Level Simulation mode.

If you do not exit the Level Simulation mode, normal operation will resume automatically 60 seconds after the last time a new value was entered for the simulated level.

When performing Level Simulation from SCADA through one of the communication ports, the operator is only permitted to perform the Level Simulation when the communication port being used is "UNLOCKED". See Section S.

Performing Level Simulation Remotely

To Start Level Simulation: Set Modbus Coil 626 (Register 40040 Bit 1) to "1".

To Decrease Simulated Level: Set Modbus Coil 627 (Register 40040 Bit 2) to "1".

To Increase Simulated Level: Set Modbus Coil 628 (Register 40040 Bit 3) to "1".

To End Level Simulation: Clear Modbus Coil 626 (Register 40040 Bit 1) to "0".