

MECH-Flow control

Canal Gate with metering



MECH-Flow control is specially designed for combined flow metering and control. Gate are controlled through, actuators for accurate flow control. As Special design reduces the power requirement drastically making it operable on **solar power**, with battery back-up. MECH-Flow control has Intelligent Controller having interface like Digital/ Analog/ RS-485/ SDI-12/ MODBUS/ PROFIBUS protocols. Local Push Button stations are provided to operate the Gate in LOCAL MODE of operations.

Features:

- ⊕ Inbuilt Flow Measurements.
- ⊕ Minimal Power requirements
- ⊕ Can Work with Solar /DC/ AC power
- ⊕ Retrofitted to existing gates
- ⊕ Continuous Position monitoring
- ⊕ Limit switches (Hi & Low, near high, near low)
- ⊕ Interface with almost all RTUs/PLC
- ⊕ Local push-buttons for manual operation
- ⊕ RS-485, SDI-12, MODBUS Interface

Areas of Applications:

- ⊕ Head Regulator Gates
- ⊕ Cross Regulator gates
- ⊕ Minor gates
- ⊕ Open channel Regulator Gartes
- ⊕ Water Treatment Plant
- ⊕ Waste water tplant

Specifications:

- ⊕ Flow measurement Accuracy is +/- 2%
- ⊕ Inbuilt Gate Position sensor
- ⊕ Units of Measurements – User definable
- ⊕ Integration with SCADA network
- ⊕ Ultrasonic sensors provided measures Upstream and Downstream water levels.
- ⊕ Robust construction for Field Operation
- ⊕ Available in Die cast / Mild steel / Aluminum Avoid this, we cannot give die cast units
- ⊕ Power supply 12 VDC Battery charged from solar panel or AC mains Power.

Specifications:

Input power	12 /48/60 VDC Solar Powered or Optionally 230V/415VAC
Input	Digital / Analog / SDI-12 Commands
Range	0-10 Mtr. Screw/ rope hoist
Resolution	10 mm or better
Torque	120 NM at motor end(Solar) 800 NM (Diesel Generator Input)
Flow Accuracy*	Controlled externaly
Output Torque Output Speed	Dependant on reduction gearing Upto 20 RPM
Controller	Microprocessor based solid state
Push Buttons	Open, Close, Stop
Programming	Field programmable from front panel Through RS-232 / RS-485 from PC
Indicators	Opening, Closing, Overload,
Limit switch input	Full open and Full close positions* bear full, near empty
Gate Position Sensor Display	Inbuilt mechanism with digital readout 20 x 2 LCD Alphanumeric with back lit
Internal Wiring	As per the requirement* Remove
Mounting	Suitable to site requirement * Confrim Type, Wall or Panel Mounting
Environmental	
Op. Temp	-20 * 0 to 60°C Storgae Temp – upto 70 Deg.
Humidity	0 -99% (non-condensing)
Accessories	Intelligent Controller Gate Position Measurement System Limit switches

Ordering Information:

MECH- FLC-

120	Small Gates	
320	Large Gates	
-	012	12V DC input
	048	48V DC input
	060	60 V DC input
-	CUS	Custom input AC 230 VAC/ 415 VAC
	07	4-20 mA Output
	28	RS-485 / RS-232 Interface
	R	Radial Gate
	V	Vertical gate
	S	Screw Type Gate



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