

## Flow Measuring and Control Device



Configuration Via Computer

### FC771

#### Device Features

- 2 pcs 6 Digit Numeric Display
- 4 pcs LED Indicator
- 11 Digit Totalizer and Batch Totalizer Indicator
- 1 pcs Transmitter Supply(24Vdc)
- 1 pcs Sensor Input (mA,mV,V,Puls)
- 2 pcs Numeric Input(Totalizers to reset the outside)
- 1 pcs RS485 Communication Unit
- 1 pcs Analog Output (0/4-20mA,0/2-10V)
- 3 pcs Relay or Logic Output (24VDC)
- 100-240V AC/DC Universal or 24V AC/DC Supply
- Isolation Between Input/Output Modules

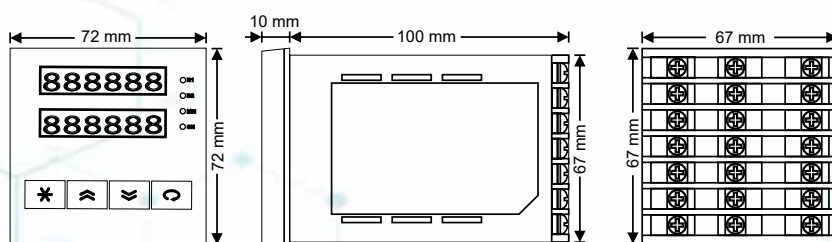
- Sensor Error Detection
- Retransmission (For Process and Set Value)
- 6 Different Relay Functions
- ON/OFF Control
- 100ms Sampling and Control Cycle
- Standard MODBUS RTU Communication Protocol
- Configuration Via Computer

FC771 devices are 72 x 72 mm in size. It is a flow measuring device that can be programmed as pulse, current and voltage input. If the device is set as current or voltage input, the input is given a linear function. The device can control two different digital outputs with two different set points. The set set value can be assigned to instantaneous flow, addition and batch value. It has the ability to transfer instant flow, total and batch information with its analog output module. Measurement information can be transferred to a central system via MODBUS RTU protocol over RS485 line. A total of 128 devices can be connected via the communication line. These devices are based on international standards compliance, reliability and ease of use at the design stage. For this reason, they are ergonomic devices that can be easily used for different controls in many sectors.

#### Input Types

| Sensor Type  | Standard | Min.  | Max.   |
|--------------|----------|-------|--------|
| Pulse        |          |       | 8000   |
| 0 / 4-20 mA  |          | 0 mA  | 20 mA  |
| 0 / 2-10 VDC |          | 0 VDC | 10 VDC |

#### Device Dimensions

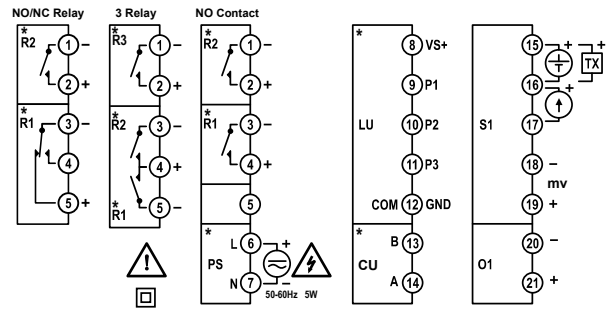


Panel Cutting Dimensions = 68 ± 0,5 mm x 68 ± 0,5 mm

## Technical Specifications

|                                      |  |
|--------------------------------------|--|
| <b>Power Supply ( PS )</b>           | 100-240 Vac/dc +10%-15%<br>24 Vac/dc +10%-20%  |
| <b>Power Consumption</b>             | 5W, 8VA  |
| <b>Universal Sensor Input ( S1 )</b> | Two Wired Transmitter = 4-20mA<br>Current = 0/4-20mA<br>Voltage = 0-50mV, 0/2-10V<br>Pulse = PNP and NPN (Max. 8000Hz) |
| <b>Transmitter Supply ( TX )</b>     | 24Vdc ( I <sub>sc</sub> = 30mA )   |
| <b>Analog Input Impedance</b>        | Current = 10Ω<br>Voltage = 1MΩ   |
| <b>Analog Output ( O1 )</b>          | Current = 0/4-20mA ( R <sub>L</sub> ≥500Ω )  |
| <b>Relay Output ( R1,R2,R3,R4 )</b>  | Contact = 250VAC 10A   |
| <b>Contact Lifetime</b>              | No Load = 10.000.000 Switching<br>250V,10A Resistive Load = 1.000.000 Switching  |
| <b>Memory</b>                        | 100 Years, 100.000 Renewals  |
| <b>Accuracy</b>                      | +/- 0,2%   |
| <b>Sampling Time</b>                 | 100 ms   |
| <b>Environment Temperature</b>       | Working = -10...+55°C<br>Storage = -20...+65°C   |
| <b>Protection Class</b>              | Front Panel = IP54 Trunk = IP20  |
| <b>Dimensions</b>                    | Width = 72 mm<br>Height = 72 mm<br>Depth = 110 mm  |
| <b>Panel Cutting Dimensions</b>      | 68 +/- 0,5 mm x 68 +/- 0,5 mm  |
| <b>Weight</b>                        | 292 gr   |

## Modular Structure and Connection Diagram



| Module   | Description   |
|----------|---|
| S1       | Universal sensor input module   |
| CU       | RS485 MODBUS RTU Communication Module                                   |
| LU       | Logic Input Module  |
| O1       | Analog Output Module  |
| R1,R2,R3 | Relay Output Module   |
| PS       | Supply voltage input<br>(Supply voltage is determined by product code). |

## Product Code

FC771 - / 0 / 0

|   |       |
|---|-------|
| <b>Power Supply :</b>   | PS    |
| 0 = 100-240Vac (Universal)<br>1 = 24Vac/dc  |       |
| <b>Communication Module :</b>   | CU    |
| 0 = N/A<br>3 = RS485 (MODBUS) Communication Module                                      |       |
| <b>Analog Output Module :</b>   | O1    |
| 0 = N/A<br>1 = 0/4-20mA Current Output<br>2 = 0/2-10Vdc Voltage Output                  |       |
| <b>R1 Output Module :</b>   | R1    |
| 0 = N/A<br>1 = NO Contact<br>2 = 24V Logic Output ( to drive SSR )<br>3 = NO/NC Contact |       |
| <b>R2,R3 Output Modules :</b>   | R2-R3 |
| 0 = N/A<br>1 = NO Contact<br>2 = 24V Logic Output ( to drive SSR )                      |       |

*Note : If R3 relay output is coded, R1 and R2 relay outputs must be coded as the same type and NO / NC cannot be selected.  
If the relay output R1 is coded as 3 (NO / NC), the R3 module must be 0.*