

FLOW COMPUTER

MODEL EC351

MULTI FUNCTION FLOW COMPUTER FOR FLUID APPLICATIONS

Features

Compact flow computer combines signals from volumetric flowmeters with those from pressure, temperature and density sensors. Using appropriate flow equations, a wide range of important variables can be calculated and displayed.

- Calculates and displays mass flow, corrected volume, heat, delta heat and other process variables.
- 2. Fast initial start-up possible using the "Quick Setup" program.
- 3. Function keys are programmable.
- 4. Outputs are galvanically isolated.
- 5. Has a multi-language (English, German, French) cleartext display.
- 6. Easy connection to and full compatibility with EF200 flowmeters.



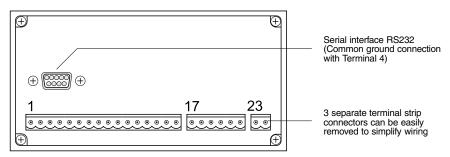
Specifications

Model	EC351
Display	Two-line, backlit, liquid crystal, 20 characters per line
Line Voltage (Power Supply)	85 to 260 V AC (50/60 Hz)
Power Consumption	AC: less than 10 VA
Integral Supply for Transmitters	24 V DC, 100 mA regulated
Operating Temperature	0 to 50 °C
Protection Standard	Front Panel: IP65 / NEMA 4X; Housing: IP20 (EN 60529)
Housing Material	Flameproof plastic

Inputs	Flow	Pulse Input	Trigger Level	Current Pulse: 12 mA
			Input Restriction	Umax: 50 V DC, Imax: 25 mA, fmax: 20 kHz
	Pressure, Density, Temperature	Current Input	Range	0/4 to 20 mA
			Automatic Error Recognition	Signal over-range, current loop broken
		Pt100 (RTD) Input	Connection	3-wire
			Temperature Resolution	0.01 °C
			Linearity	Corrected internally
			Automatic Error Recognition	RTD short, RTD open
	Outputs	Relay Output (×2)	Function	Flow alarm, temperature alarm, pressure alarm
			Pulse Output	f _{max} : 5 Hz
			Contacts	SPDT 240 V, 1 A
		Current Output (×2)	Range	0/4 to 20 mA
			Resolution	16 bit
			Linearity	0.05% o.f.s. (at 20 °C)
			Maximum Load Resistance	1 kΩ
		Pulse Output (selectable)	Open Collector	Voltage < 30 V DC, current < 25 mA, Uce< 0.4 V
			Voltage Pulses	Voltage 24 V DC, current < 15 mA, internal resistance: 100 Ω, f _{max} : 50 Hz
		Printer Output	Interface	Serial interface RS232, 9-pin DSUB connector

Consulting & Engineering Service

Connecting Terminals



(Rear view of panel mount housing)

	Terminal Designation	Inputs/Outputs
1	+24 V DC supply (internally connected with terminal 8)	
2	Pulse or voltage input (active+, passive-)* or high-range current input for split range DP transmitters	Flow input
3	Not used (Voltage or Current input)	
4	(-) Ground connection	Active inputs*
5	(+) Pt100	Pt100 or
6	(+) Pt100	Current input
7	Pt100 (-) or current input (active+, passive-)	1
8	+24 V DC power (internally connected with terminal 1)	Current inputs
9	(+) Pt100	Pt100 or
10	(+) Pt100	Current input
11	Pt100 (-) or current input (active+, passive-)*	2

	Terminal Designation	Inputs/Outputs			
12	(+) active or passive				
13	(-) active or passive	Pulse output			
14	(+) Current output 1	Current			
15	(+) Current output 2	Current outputs			
16	(-) Ground connection	- Outputs			
17	Function: Normally Open contact (NO)				
18	Relay 1 wiper	Relay output 1			
19	Function: Normally Closed contact (NC)				
20	Function: Normally Closed contact (NC)	Relay output 2			
21	Relay 2 wiper				
22	Function: Normally Open contact (NO)				
23	L1 for AC	Power aupply			
24	N for AC	Power supply			

* active: Transmitter with own power supply (4-wire) passive: Transmitter supplied by the flow computer (2-wire)

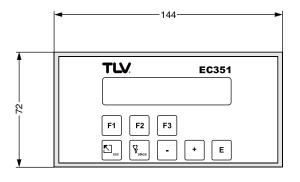
CAUTION

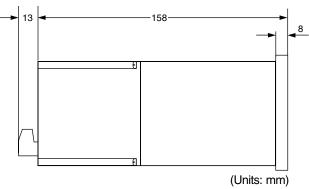
The three inputs share a common ground connection. The two current outputs also share a separate ground connection. If complete separation is required between the two current outputs, then external galvanic isolators must be used.

Dimensions

● EC351 Housing for panel mounting

Galvanic Isolation





Weight: approx. 0.6 kg



