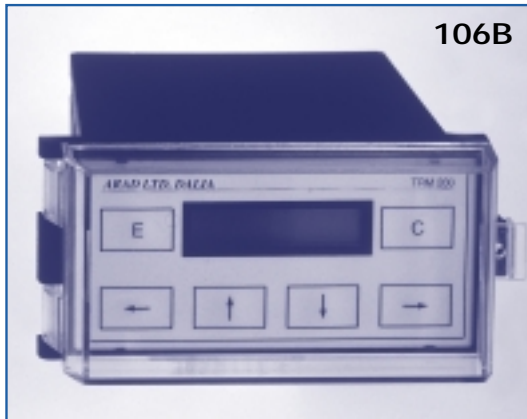




# CONVERTER TYPE MC106

## EM



\* The converter shown here is installed on sensor M500

### General

The Converter is an electronic unit connected to the Sensor. The signal generated by the sensor is processed by the converter and translated into physical measures. Quite often one realizes that many functions offered by the more sophisticated converter are not required for day to day work and the higher price of such instruments is not justified. The MC-106 has been developed in order to provide a "required and sufficient" performance at the lowest possible cost. There are 3 versions: a,b and c, all of which may be connected to any of the ARAD sensors in various configurations according to the following table:

### Configurations Table

MC106A	MC106B	MC106C
* "Compact" - installed on the sensor body. * "Separate" - installed separately. Maximum recommended distance between converter and sensor is up to 20m.	"Separate" only (panel mounted)  Maximum recommended distance between converter and sensor is up to 20m.	"Compact" only



**TECHNICAL SPECIFICATIONS**

	MC106A	MC106B	MC106C
<b>Display:</b>	Without display & Keyboard ("Blind"). Upon request - with display.	LCD display - 2 lines, 16 characters in each line. Keyboard (6 keys).	Without Display & Keyboard ("Blind").
<b>Programming:</b>	With external device (TRM 100, TRM 200 or PC). Max. distance - up to 1500 m.	Local - through keyboard. Remote - with TRM-200 or PC. Max. distance - up to 1500 m.	With external device (TRM 100, TRM 200 or PC). Max. distance - up to 1500 m.
<b>Casing:</b>	Aluminum casting.	Plastic (ABS). Upon request - transparent protection cover over the front panel.	Stainless Steel.
<b>Environmental Protection Level:</b>	IP 65.	IP 44.	IP 67.
<b>Weight:</b>	1.2 Kg.	0.8 Kg.	1.8 Kg.
<b>Dimensions:</b>	See drawing.		
<b>Voltage Supply:</b>	Std - 220V AC, 50/60 Hz (Optional - 24V AC/DC, 110V AC).		
<b>Ambient Temp.:</b>	-20°C ÷ 60°C.		
<b>Typical Accuracy</b>	0.5%.		
<b>Repeatability:</b>	0.1%		

**User's Available Data:**

- Flow Rate (forward and backward).
- Volume: 4 Values (2 forward, 2 backward), each in 9 digits (in each direction it is possible to have total + resettable totalizer).
- Alarms: Empty pipe; over-flow rate; under-flow rate; software problems; hardware problems.
- Flow Direction.
- Date.
- Measuring Units: User's choice.
- Electrical Output:  
Volume - pulses per unit of volume  
Flow rate-Frequency 0-1 khz  
Upon request: 0/4-20 mA into 1000Ω at a distance of up to 1000m.

**Remark:**

Only 1 option out of the following "User's Available Data" list can be used as an output: Volume pulses; Flow rate frequency; Over-flow rate; Under-flow rate; Empty pipe; Flow direction; Software problems.

**Networking:**

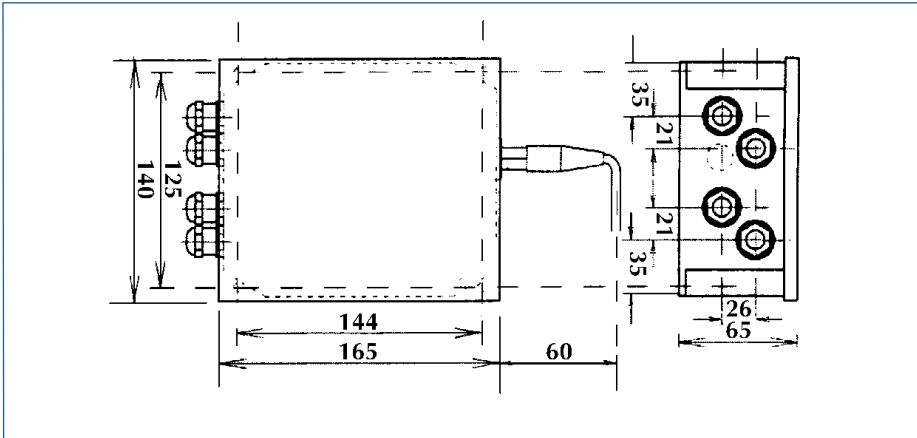
Up to 32 converters may be connected in a network. Any of them can be read and programmed from any single point in the network.  
Communication mode: RS-485.

**Data Saving**

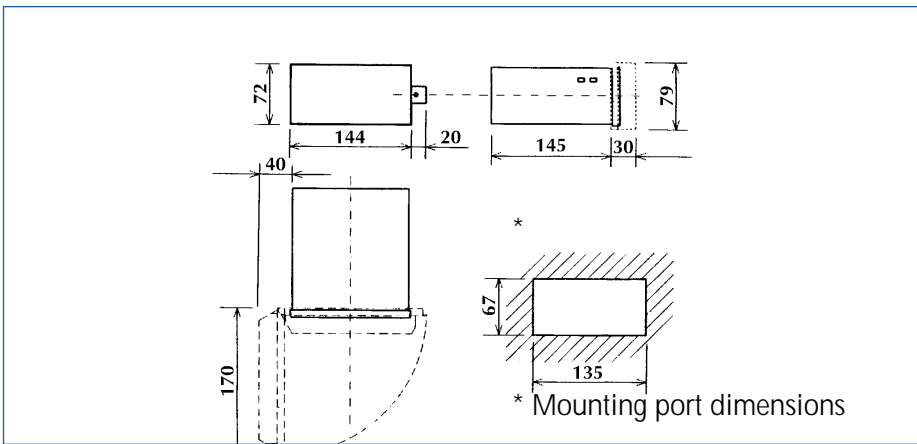
Power supply cut-off will not cause loss of data.



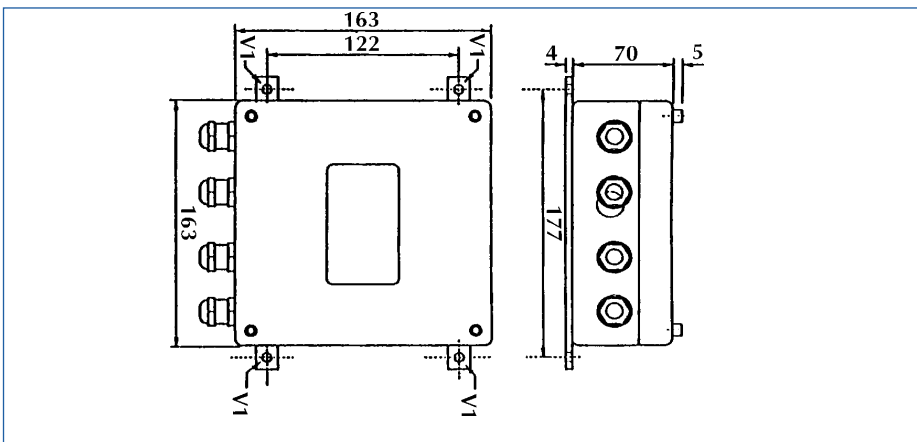
**106A**



**106B**



**106C**





TD 187-11.97 MC 106



**ARAD LTD. DALIA**

**WATER MEASURING TECHNOLOGIES**