



PROGRAMMABLE ELECTRICAL HEATER FOR CORIOLIS METERS

**INTELLIGENT, PROGRAMMABLE HEATER THAT PROVIDES ACCURATE
TEMPERATURE CONTROL OF CORIOLIS MASS FLOW METERS**

The patented **Limpet** heating system consists of a compact, intelligent, microprocessor-controlled and waterproof heating module that can be fitted on a wide range of equipment to provide heat for industrial processes or frost protection. The **AlphaLimpet** can be used for heating Coriolis mass flow meters by the application of a profiled aluminium adaptor block that transmits the heat into the meter body, as well as acting as a heat storage device. The system is designed to help ensure that in the event that a liquid that requires heating stops flowing through the meter, it does not become too viscous and block the meter. The **AlphaLimpet** can be supplied in either 110Vac or 230Vac versions and can deliver up to 120W.

Applications

- Process industries
- Food & beverage
- Pharmaceutical
- Chemical
- Cosmetics
- Frost protection

Advantages

- No control panel required
- Accurate temperature control
- Compact design
- IP67 rating
- Low power consumption

LIMPET FEATURES

The main features of the **AlphaLimpet** heating system are as follows:

Operation:

- Adjustable temperature range up to 80°C.
- 110 / 230 Volts ac; up to 120W power output.
- IP67 flexible conduit for power in.
- An insulated jacket is essential for maximum performance and even temperature distribution.

Programmable:

- A programmable control board is mounted inside the device.
- Removable IP-rated top plate giving user access to a simple temperature adjustment setting using two rotary switches. This would normally be done during installation (factory pre-set is 40°C).
- Fully user-programmable, multi-mode operation using a 6-way DIP switch.
- Ramp rate control for sensitive applications.
- Internal programming LED indicator. This confirms correct programming and then indicates that the unit is operating.
- External power and supervision status LED.

Robust Construction:

- The product is sealed to ensure that all the connections and components are waterproof.
- Robust IP67-rated aluminium case.

Heat Transfer through Profiled Adaptor Block:

- An aluminium adaptor block pre-profiled to fit onto the meter (user to specify equipment diameter or profile).
- T-nuts are used to secure the AlphaLimpet onto the adaptor block and stainless steel straps are used to secure the adaptor block to the meter body.

TECHNICAL INFORMATION

- Dimensions: 176mm long (excluding connectors) x 63mm wide x 52mm high.
- Voltage: 110Vac or 230Vac.
- Power rating: up to 120W.
- Temperature range: 0°C to 80°C.
- Ambient: -30°C to +50°C.
- Temperature control: $\pm 0.8^\circ\text{C}$.
- Colour: Red.

ORDERING INFORMATION

AlphaLimpet

Model						
AL						
Series						
1						
3						
5						
7						
Code Voltage						
11	110 Vac					
23	230 Vac					
Connections						
Code	Type					
C	Conduit					
P	Phoenix					
Supervisory Port						
Code	Type					
0	None					
S	Yes					
Sensor						
Code	Type					
-	None					
/T	Thermowell					
/A	Ambient					
AL	5	11	C	0	/A	Example

Custom Meter Adaptor Blocks

Model			
AB			
Manufacturer			
EF	Endress & Hauser Promass F		
EI	Endress & Hauser Promass I		
ME	Micro Motion Elite		
MF	Micro Motion F Series		
MH	Micro Motion H Series		
MR	Micro Motion R Series		
MT	Micro Motion T Series		
Size (DN)			
	/25		
	/50		
	/80		
	/100		
	/150		
AB	EF	/100	Example

Limpet

Zero Carbon Thermal Technology

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