

ICESAFE Pro™

Carburettor Ice Warning & Protection System

DESCRIPTION

ICESAFE Pro™ is a carburettor ice warning and protection system. It is designed to aid ice prevention and to improve environmental awareness of the pilot - thereby enhancing the safety of aircraft.

Every year carburettor icing is assessed to be the contributing factor in several accidents, including some fatalities. Ice formation is subtle and can occur even in warm conditions. It is often not identified in time due to a lack of knowledge or inexperience of the pilot.

ICESAFE Pro™ uses precision sensor technology to continuously monitor the atmosphere. An advanced algorithm then gives an indication of the likelihood and severity of ice formation. ICESAFE Pro™ also provides the facility to automatically switch on carb-heat (if available) to arrest the problem. This automatic control feature can be disabled or overridden at any time by the pilot.



Key Features

- Real-time warning of icing conditions
- Automatic Carb-heat control* with override facility
- 30A switching capability
- Intuitive, single LED traffic light indicator
- Lightweight, robust design
- 8V – 35V input range
- Low power consumption

* Electrical Carb heater required

Specifications

	Humidity	Temperature
Sensor accuracy	2%	0.3%
Sensor resolution	0.04%	0.01C
Measurement range	0% to 100% RH	-40 °C to 125 °C
Response time		5s
Maximum cable length		4m
Minimum heater on time		5 min
Switching capability		30A
Visual indicator		10mm multi-colour LED
Supply voltage		8V - 35V (0.5W)
Override switch		SPST
Operating limits		-40 °C to 85 °C / 0 – 100% RH
Dimensions		55mm x 42mm x 27mm
Weight		50g



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