



## CHT TEMPERATURE FOR ROTAX ENGINES 912UL. Diameter 52mm. °F IM-547

### Preface

The IM-547 instruments have been designed especially to measure the Cylinder Head Temperature in Rotax® engines 912UL (80HP).

The IM-547 is available in 52 mm size.

The instruments have been designed to work with both 12V and 24V systems.

The minimum instrumentation requirements for BRP ROTAX® four stroke engines include a gauge for continuous CHT monitorization.



### General Information

**ATTENTION :** The IM-547 has not undergone any safety or durability examination to Civil Aviation standards but does incorporate the latest technical development and has been thoroughly tested. Despite the CHT being a precision instrument, false indication or misinterpretation of data could occur. By utilizing this instrument the user acknowledges the possible danger and responsibility for all risks.

### State of receipt

- Instruments packed in a plastic bag
- 4 attachment screws
- 3 Loose plugs

### Technical data

Case:	Plastic
Weight:	220g
Suitable for:	Rotax 912 VDO Sender
Power Supply:	10..30VDC
Power Current:	0.1 Amp. Max.
Scale:	100..300 °F
Subdivision scale:	2°F
Max. Deviation:	2%
Dimensions:	See sketch
Calibration:	Calibrated by the manufacturer prior to shipment.
Yellow Zone*	100 to 150°F & 220 to 300°F
Green Zone*	150 to 220°F

\*Please refer to the updated User Manual of your engine BRP-ROTAX® engine for the operational limits

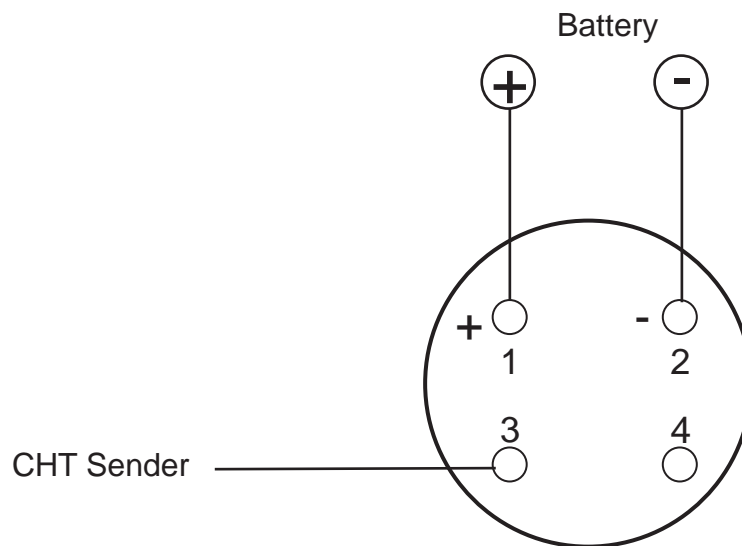
## Installation Instructions

- Install instruments in pilot's field of vision, free from vibration and glare.
- Protect the instruments against dampness and any kind of gasoline or acid.
- Pay attention to installation dimensions
- Wiring has to be carried out with good quality plastic-sheathed cable.
- When routing cables, prevent possible damage to cables from heat, vibration, shearing or crushing.
- Install a breaker or fuse of 1 Amp.

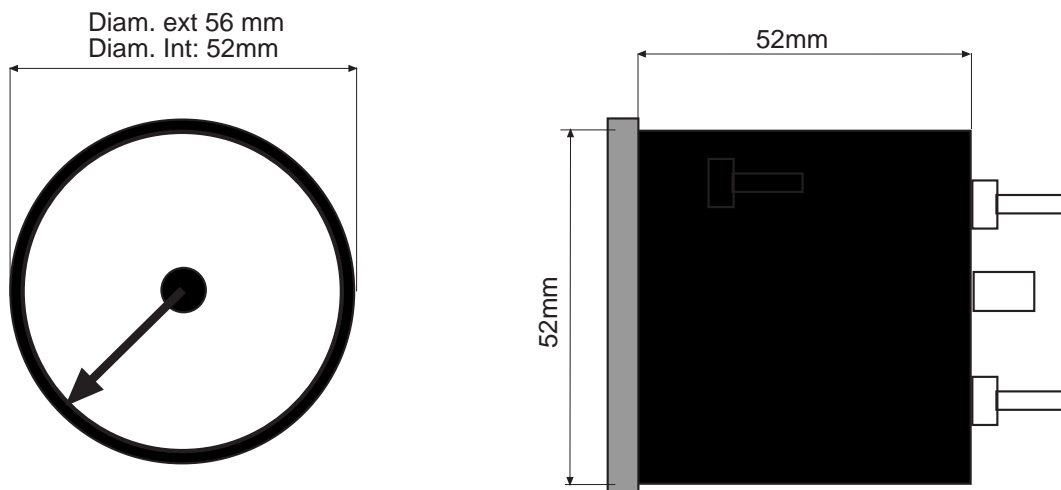
### Instruments Terminals

- 1) (+) Red wire to positive terminal of battery.
- 2) (-) Black wire to negative terminal of battery.
- 3) Input to the CHT Sender.
- 4) Factory calibration input.

## Wire Connections

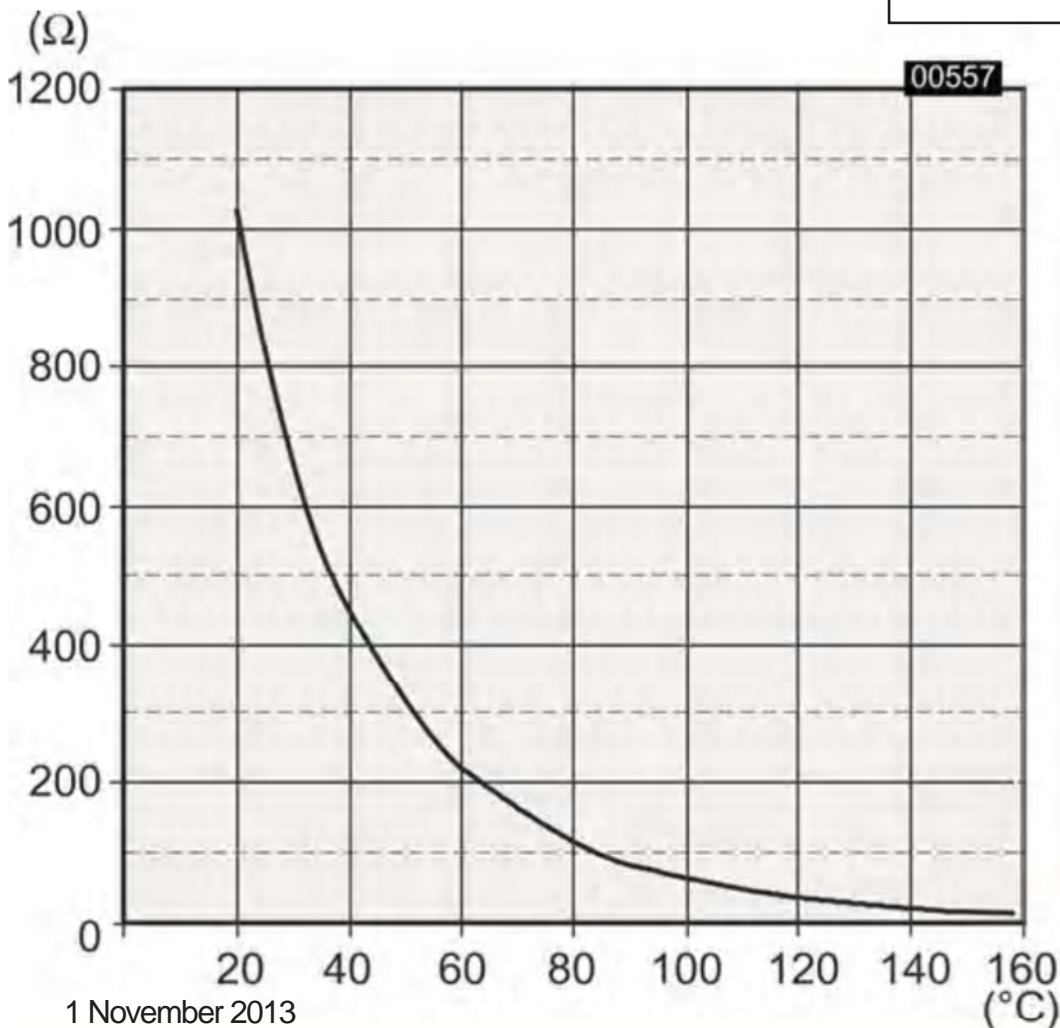
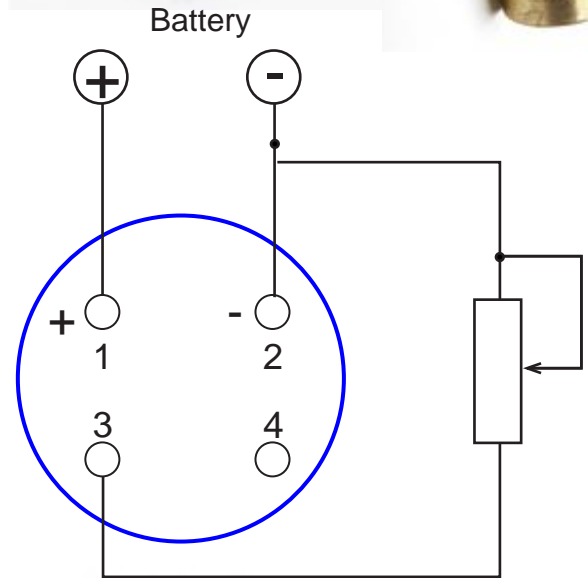


## Dimensions



## Test & Calibration

The VDO sender is a resistance which varies with the temperature. To check the instrument you need a 1K potentiometer and multimeter. Adjust the potentiometer to the multimeter read 62.2 Ohm. Being careful not to turn the potentiometer, connect according to Figure 1. With 62.2 Ohm, the instrument should show 212°F. Try with other resistance values.



°C	°F	OHM
50	122	322.8
60	140	165
70	158	133
80	176	112.5
90	194	83
100	212	62.2
110	230	47.5
120	248	36.5
130	266	28.9
140	284	23.1
150	302	18.6