

**Product Data**

**Accessory**

**On Board Set Point & Remote Probe**



**904/745=OBS(40)H or C 50°-90°F**



**904-745-OBS (150)H or C 30°-180°F**

**SPECIFICATIONS**

|                                 |                               |
|---------------------------------|-------------------------------|
| Power, Provided from 904 or 745 | 15V DC/5mA                    |
| Input, LM34                     | Integrated Circuit            |
| Set Point Range, 40°F Range     | 50°-90°F                      |
| Set Point Range, 150°F Range    | 30°-180°F                     |
| Ohms (By Others)                | 0-135 ohms                    |
| Mode, Factory Fixed             | RA (Heat) or DA (Cool)        |
| Suffix for RA or DA             | H for (RA) or C (DA)          |
| Ambient                         | 75°C                          |
| Humidity                        | Non-condensing                |
| Probe                           | Stainless Steel               |
|                                 | 4.625" long, .25" dia.        |
|                                 | Cable length                  |
|                                 | 60 inches                     |
|                                 | Output                        |
|                                 | 300-1800 milli-volts          |
| Ambient                         | 0°C/32°F Min./75°C/167°F Max. |
| Dimensions, PCB                 | 2.8"Wx1.75"Lx1.75"H           |

A "Plug-In On Board Set Point" accessory control with a remote sensor is available to be added directly onto the 904 or 745 Series Sequencing/Step Controller platform. The OBS section is installed on top of the 904 or 745 controller PCB, therefore it does not require any additional footprint space. Both models are available in Direct (cooling) or Reverse (heating) Acting Modes. A "C" or "H" suffix will follow the 90 or 180 symbol to indicate the Cooling or Heating dedicated Mode.

Two models representing two ranges are available; a 50°-90°F environmental (40F) range, and a 30°F-180°F industrial (150F) range . Both ranges utilize the same stainless steel probe which produces a linear milli-volt output signal that can easily be converted to °F (temperature). The LM34 integrated circuit provides a linear output.

Example: 770 milli-volts = 77.0°F

The probe is 60" in length, of (3) twisted stranded conductors, sheathed in a jacket. This cable, of like kind, can be extended up to 100 ft.when required. Caution: Low Voltage Signal Cables should not be routed in the proximity of power lines (wiring).

Both modules have adjustable spans from 2° to 7°F. The 40°F range (745/904-OBS 90) is factory set at 2°F span (std.). The 150F range (745/904-OBS 180) is factory set at 7°F span (std.). Spans other than factory set standard may be requested and provided. When factory calibration of the span is provided, a high degree of accuracy is achieved. Field calibration can be accomplished when proper instrumentation is available. See Field Calibration I&O instruction when applicable.

The plug-in PCB is connected and supported by 4 conducting stand off's from the main 745 or 904 PCB. Connection of the remote probe is to be made directly to the OBS PCB. No signal inputs should be made to the 745/904 PCB when an OBS control section is used.