

# Appendix B. Glossary

## ABBREVIATIONS

|                     |                                 |
|---------------------|---------------------------------|
| <b>ACT EXC</b>      | Active excitation               |
| <b>ACT SEN</b>      | Active sense                    |
| <b>Delta R (DR)</b> | Differential resistance         |
| <b>Delta T (DT)</b> | Differential temperature        |
| <b>ESD</b>          | Electrostatic discharge         |
| <b>FCI</b>          | Fluid Components Intl           |
| <b>GND</b>          | Ground                          |
| <b>GND SEN</b>      | Ground sense                    |
| <b>LCD</b>          | Liquid crystal display          |
| <b>LED</b>          | Light emitting diode            |
| <b>REF EXC</b>      | Reference excitation            |
| <b>REF SEN</b>      | Reference sense                 |
| <b>RTD</b>          | Resistance Temperature Detector |

## DEFINITIONS

|                                 |  |
|---------------------------------|--|
| <b>Active excitation</b>        | ACT EXC: The active RTD supply current.  |
| <b>Active RTD</b>               | The flow element part that senses the fluid flow rate.   |
| <b>Active sense</b>             | ACT SEN: The active RTD voltage measurement.   |
| <b>Differential resistance</b>  | Delta -R (DR): The flow element signal.  |
| <b>Differential temperature</b> | Delta -T (DT): The difference in temperature between the active and reference RTDs.                    |
| <b>Flow arrow</b>               | An indication mark used to properly orient the flow element in relation to the “ fluid flow direction. |
| <b>Flow transmitter</b>         | The portion of the flowmeter that conditions, converts and scales the flow signal.                     |
| <b>Ground sense</b>             | GND SEN: The ground voltage measurement.   |
| <b>Heater</b>                   | HTR: The flow element part that heats the active RTD.  |
| <b>Local enclosure</b>          | The enclosure attached to the flow element (usually contains the wiring terminal block).               |
| <b>Orientation Flat</b>         | A datum plane used to properly orient the flow element in the fluid conduit.                           |
| <b>Range</b>                    | The flow rate measurement region as defined by the lower and upper limits.                             |
| <b>Reference excitation</b>     | REF EXC: The reference RTD supply current.   |
| <b>Reference RTD</b>            | The flow element part that senses the fluid temperature.   |
| <b>Reference sense</b>          | REF SEN: The reference RTD voltage measurement.  |
| <b>Remote enclosure</b>         | The enclosure that protects the flow transmitter.  |

|  |   |
|--|---|
| <b>Resistance Temperature Detector</b> | RTD: A sensor whose resistance changes proportionally to detector temperature changes.  |
| <b>Span</b>                            | An adjustment that establishes at what flow rate the flow transmitter's output is full scale.<br>(Also, the difference between the upper and lower flow rate values.) |
| <b>Thermal flowmeter</b>               | An instrument that uses thermal technology to measure fluid flow rate.  |
| <b>Thermowell</b>                      | The flow element part that protects the heater and RTDs from the process fluid.   |
| <b>Turn down</b>                       | The ratio of the upper to lower flow rate values.   |
| <b>Zero</b>                            | An adjustment that establishes at what flow rate the flow transmitter's output is zero.   |