

Appendix B. Glossary

ABBREVIATIONS

Delta-R (DR)	Differential Resistance
Delta-T (DT)	Differential Temperature
DMM	Digital Multimeter
DPDT	Double Pole Double Throw
FCI	Fluid Components Intl
HTR	Heater
LED	Light Emitting Diode
POT	Potentiometer
RA	Return Authorization
RTD	Resistance Temperature Detector
SFPS	Standard Feet Per Second
SPDT	Single Pole Double Throw

DEFINITIONS

Active RTD	The of the sensing element that is heated by the heater. The active RTD is cooled due to increases in the process fluid flow rate or density (level sensing).
Differential resistance	
Delta-R (DR)	The difference in resistance between the active and reference RTDs.
Differential temperature	
Delta-T (DT)	The difference in temperature between the active and reference RTDs.
Heater (HTR)	The part of the sensing element that heats the active RTD.
Local enclosure	The enclosure attached to the sensing element. (Usually contains the control circuit and mounting socket.)
Reference RTD	The part of the sensing element that senses the process media temperature.
Remote enclosure	An optional protective enclosure for the control circuit. Used when the control circuit must be located away from the sensing element.
Resistance Temperature Detector (RTD)	A sensor whose resistance changes proportionally to temperature changes.
Sensing element	The transducer portion of the instrument. The sensing element produces an electrical signal that is related to the flow rate, density (level sensing), and temperature of the process media.

Thermowell	The part of the sensing element that protects the heater and RTDs from the process fluid.
Turndown	The ratio of the upper to lower flow rate values.