

Appendix B. Glossary

ABBREVIATIONS

Delta R (ΔR)	Differential Resistance
Delta T (ΔT)	Differential Temperature
DMM	Digital Multimeter
FCI	Fluid Components Intl
HTR	Heater
LED	Light Emitting Diode
RA	Repair Authorization
RTD	Resistance Temperature Detector

DEFINITIONS

Active RTD	The flow element part that senses the fluid flow rate.
Balance	A number that is used to balance or match the active and reference RTDs when the heater is off.
Control circuit	The portion of the flow switch that conditions, converts, and scales the flow element signal.
Differential resistance Delta -R (ΔR)	The flow element signal.
Differential temperature Delta -T (ΔT)	The difference in temperature between the active and reference RTDs.
Flow element	The portion of the flow switch that contains the thermowells, RTDs, and produces a signal with a defined relationship to the flow rate.
Heater (HTR)	The flow element part that heats the active RTD.
Local enclosure	The enclosure attached to the flow element (contains the wiring terminal block when a remote enclosure is used).
Reference RTD	The flow element part that senses the fluid temperature.
Remote enclosure	The enclosure that contains the control circuit, and is connected to the local enclosure by an electrical cable.
Resistance Temperature Detector (RTD)	A sensor whose resistance changes proportionally to detector temperature changes.
Thermowell	The flow element part that protects the heater and RTD's from the process fluid.

