

Appendix B. Glossary

ABBREVIATIONS

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

DEFINITIONS

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

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