

## ACRONYMS

A/D	analogue to digital
ASCII	American Standard Code for Information Interchange
CSA	Canadian Standards Association
Cv	valve flow coefficient
D/A	digital to analogue
DCS	distributed control system
DP	differential pressure
DPD	double-poled double throw
E/I	electrical and instrumentation
EEPROM	electronically erasable programmable read-only memory
EMI	electromagnetic interference
ESD	emergency shutdown device
FC	failed close
FO	failed open
HART	highway addressable remote transducer
HMI	human machine interface
I/O	input/output
I/P	current-to-pneumatic
ISA	International Society of Automation
LEL	lower explosive limit
LRV	lower range value
LVDT	linear variable displacement transformer
MA	manual/automatic
MAC	media access control
MCC	motor control centre
NC	normally closed
NEMA	National Electrical Manufacturers Association
NO	normally open
OHSA	Occupational health and Safety Act

## ACRONYMS

P/I	pipng and instrumentation
P/ID	process and instrumentation diagram
PB	proportional band
PCS	process control system
PID	proportional integral derivative
PLC	programmable logic controller
PSS	process safety system
PV	process variable
QA/QC	quality assurance and quality control
RAM	random access memory
RFI	radio frequency interference
RRF	risk reduction factor
RTD	resistance temperature detector
RTU	remote terminal unit
SAC	stand-alone controller
SAMA	Scientific Apparatus Makers Association
SCBA	self-contained breathing apparatus
SCADA	supervisory control and data acquisition
SDS	safety data sheet
SFP	small form-factor pluggable
SIL	safety integrity level
SIS	safety instrumented system
SP	set point
SPDT	single-pole double throw
TCP/IP	transmission control protocol/Internet protocol
UPS	uninterruptable power supply
URV	upper range value
Vsd	variable speed drive
WHMIS	Workplace Hazardous Materials Information System