

COMMON ABBREVIATIONS AND ACRONYMS

AC—alternating current
A/D—analog-to-digital
AEC—architect, engineer and constructor
AI—artificial intelligence
ANDF—architecture neutral distribution format
ASCI—application specific integrated circuit
API—application programming interface
ATG—automatic tank gauge
BCD—binary coded decimal
BPS—bits per second
CAD—computer-aided design
CAE—computer-aided engineering
CAM—computer-aided manufacturing
CASE—computer-aided software engineering
C/C—center-to-center
CFC—chlorofluorocarbon
CIE—computer integrated enterprise
CIM—computer integrated manufacturing
CIP—clean in place
CJC—cold junction compensation
CMOS—complementary metal oxide semi-conductor
CNC—computer numerical control
CPU—central processing unit
CRC—cyclic redundancy check
CRT—cathode ray tube
CSA—Canadian Standards Association
CT—current transformer
D/A—digital-to-analog
DAS—data acquisitions system
DC—direct current
DCE—distributed computing environment
DCS—distributed control system
DES—discrimination expert system
DIN—Deutsches Institute fur Normung
DMA—direct memory access
DNC—direct numerical control
DOS—disk operating system
DP—differential pressure
DPDT—double pole, double throw
DPM—digital panel meter
DRAM—dynamic random access memory
EHL—effective heated length
EMI—electro magnetic interference
EMS—expanded memory specification
EPA—enhanced performance architecture
EPROM—erasable, programmable read-only memory
ERP—enterprise resource planning
ES—expert system
EVOP—evolutionary operations
EWMA—exponentially weighted moving average
FCS—field control station

FFT—fast Fourier transform
FIA—flow injection analysis
FID—flame ionization detector
FIP—factory information protocol
FMS—flexible manufacturing system
FS—full scale
FTIR—Fourier transform infrared
GC—gas chromatograph
GPIB—general purpose interface bus
GUI—graphical user interface
HCFC—hydrochlorofluorocarbon
HPLC—high pressure liquid chromatography
HPV—high performance vane
HTG—hydrostatic tank gauge
IC—integrated circuit
I/O—input/output
ID—inside diameter
I/P—current-to-pneumatic
IR—infrared
IS—intrinsic safety
JIT—just-in-time
LAN—local area network
LC—liquid chromatograph
LCD—liquid crystal display
LCL—lower control unit
LEDES—linear discrimination expert system
LED—light emitting diode
LEL—lower explosive limit
LIMS—laboratory information management system
LP—linear programming
MACT—maximum achievable control technology
MAP—manufacturing automation protocol
MGO—magnesium oxide
MIPS—millions instructions per second
MIS—management information services
MMI—man machine interface
MMS—manufacturing message system
MTBF—meantime between failures
MTTD—mean time to detect
MTTF—mean time to fail
MODEM—modulating/demodulating module
MPCS—manufacturing planning and control software
MRP—material requirements planning
MRP II—manufacturing resource planning
NC—numerical control
NDIR—non-dispersive infrared
NIR—near infrared
NO—normally open
OCR—optical character recognition
OD—outside diameter
OEM—original equipment manufacturer

OI—operator interface
OOD—object oriented design
OOP—object oriented programming
OSI—open systems interconnection
P&ID—piping and instrumentation diagram
PB—proportional band
PC—personal computer or programmable controller
PD—positive displacement
P/I—pneumatic-to-current
PI—proportional-integral
PID—proportional-integral-derivative
PLC—programmable logic controller
PROM—programmable logic controller
PSA—pressure sensitive adhesive
PRV—pressure reducing valve
PV—process variable or process value
QC—quality control
R&D—research and development
RAM—random access memory
RF—radio frequency
RFI—radio frequency interference
RH—relative humidity
RMS—root mean square
ROM—read-only memory
RSS—root sum squared
RTD—resistance temperature detector
RTU—remote terminal unit
RV—relief valve
SCADA—supervisory control and data acquisition
SCR—silicon controlled rectifier
SFC—supercritical fluid chromatography
SNA—systems networking architecture
SP—set point
SPC—statistical process control
SPDT—single pole, double throw
SQC—statistical quality control
SSR—solid state relay
SSC—single station controller
SV—set point value
T/C—thermocouple
TCD—thermal conductivity detector
THD—total harmonic distortion
TOP—technical office protocol
TPM—total predictive maintenance
TQC—total quality control
TVSS—transient voltage surge suppressor
UCL—upper control limit
UPS—uninterruptible power supply
UV—ultraviolet
VDT—video display terminal
VFD—variable frequency drive
VME—virtual memory executive system
WAN—wide area network
WIP—work-in-process