

	MAGNETIC FLOW METER
	ULTRASONIC LEVEL TRANSDUCER
	LEVEL FLOAT
	LEVEL TRANSDUCER
	MANUAL VALVE
	ACTUATED VALVE X=MV, MOTORIZED VALVE X=S, SOLENOID VALVE X=PV, PNEUMATIC VALVE
	CHEM ANALYSIS PROBE
	CHEM PUMP
	PUMP
	MIXER
	BLOWER
	DRAWING TO DRAWING FLOW # = TAG SENDING OR RECEIVING X = TAG DESCRIPTION

INDICATES FUNCTION

INDICATES DESTINATION PLC UNLESS OTHERWISE SHOWN

Function	Alarms						Controllers		Readout Devices		Switches & Safety Devices						Transmitters			Solenoids, Relays, Commands, Computing Devices	Valves (On / Off)	Valves Control (Modulating)	Primary Element	Well or Probe Holder	Viewing Device (Glass)	Safety Device
Initiating or Measured Variable	First Letter	General	High	High - High	Low	Low - Low	Indicating	Blind	Recording	Indicating	General	High	High - High	Low	Low - Low	Combination	Recording	Indicating	Blind							
Analysis	A	AA	AAH	AAHH	AAL	AALL	AIC	AC	AR	AI	AS	ASH	ASHH	ASL	ASLL	ASHL	ART	AIT	AT	AY	AV	ACV	AE	AW		
Burner/Combustion	B																									
Not Assigned	C																									
Not Assigned	D																									
Voltage	E	EA	EAH	EAHH	EAL	EALL	EIC	EC	ER	EI	ES	ESH	ESHH	ESL	ESLL	ESHL	ERT	EIT	ET	EY			EE			
Flow Rate	F	FA	FAH	FAHH	FAL	FALL	FIC	FC	FR	FI	FS	FSH	FSHH	FSL	FSLL	FSHL	FRT	FIT	FT	FY	FV	FCV	FE			
Flow Quality	FQ	FQA	FQAH	FQAHH	FQAL	FQALL	FQIC	FQC	FQR	FQI	FQS	FQSH	FQSHH	FQSL	FQSLL	FQSHL	FQRT	FQIT	FQT	FQY	FQV	FQCV	FQE			
Flow Ratio	FF	FFA	FFAH	FFAHH	FFAL	FFALL	FFIC	FFC	FFR	FFI	FFS	FFSH	FFSHH	FFSL	FFSLL	FFSSL				FFY	FFV	FFCV	FFE			
Not Assigned	G																									
Hand	H	HA					HIC	HC			HS										HV	HCV				
Current	I	IA	IAH	IAHH	IAL	IALL	IIC	IC	IR	II	IS	ISH	ISHH	ISL	ISLL	ISHL	IRT	IIT	IT	IY			IE			
Power	J	JA	JAH	JAHH	JAL	JALL	JIC	JC	JR	JI	JS	JSH	JSHH	JSL	JSLL	JSHL	JRT	JIT	JT	JY			JE			
Time	K	KA	KAH	KAHH	KAL	KALL				KI		KSH	KSHH	KSL	KSLL											
Time Quantity	KQ	KQA	KQAH	KQAHH	KQAL	KQALL				KQI		KQSH	KQSHH	KQSL	KQSLL											
Level	L	LA	LAH	LAHH	LAL	LALL	LIC	LC	LR	LI	LS	LSH	LSHH	LSL	LSLL	LSHL	LRT	LIT	LT	LY	LV	LCV	LE	LW	LG	
Not Assigned	M																									
Not Assigned	N																									
Not Assigned	O																									
Pressure/Vacuum	P	PA	PAH	PAHH	PAL	PALL	PIC	PC	PR	PI	PS	PSH	PSHH	PSL	PSLL	PSHL	PRT	PIT	PT	PY	*PV	PCV	PE		PG	PSV,PSE
Pressure Differential	PD	PDA	PDAH	PDAAH	PDAL	PDALL	PDIC	PDC	PDR	PDI	PDS	PDSH	PDSHH	PDSL	PDSLL	PDSHL	PDRT	PDIT	PDT	PDY	PDV	PDCV	PDE		PDG	
Quantity	Q	QA	QAH	QAAH	QAL	QALL	QIC	QC	QR	QI	QS	QSH	QSHH	QSL	QSLL	QSHL	QRT	QIT	QT	QY			QE			
Radiation	R																									
Speed/Frequency	S	SA	SAH	SAHH	SAL	SALL	SIC	SC	SR	SI	SS	SSH	SSHH	SSL	SSLL	SSHL	SRT	SIT	ST	SY			SE			
Temperature	T	TA	TAH	TAHH	TAL	TALL	TIC	TC	TR	TI	TS	TSH	TSHH	TSL	TSLL	TSHL	TRT	TIT	TT	TY	TV	TCV	TE	TW	TG	TSE
Temperature Differential	TD	TDA	TDAH	TDAAH	TDAL	TDALL	TDIC	TDC	TDR	TDI	TDS	TDSh	TDShH	TDsL	TDsLL	TDsHL	TDRT	TDIT	TDt	TDY			TDE	TDW	TDG	
Multivariable	U																									

1. THIS TABLE IS NOT ALL-INCLUSIVE
2. "A" IS USED FOR ANALYTICAL VARIABLES NOT LISTED IN THE TABLE.
3. *ZAC=CLOSE FAIL, ZAO= OPEN FAIL, ZSC=CLOSE STATUS, ZSO=OPEN STATUS,
PVO=PNEUMATIC ACTUATOR RATE SET VALVE-OPENING, PVC=PNEUMATIC ACTUATOR RATE SET VALVE-CLOSING.

	First Letters (4)		Succeeding Letters (3)		
	Measured or Initiating Variable	Variable Modifier	Readout / Passive Function	Output / Active Function	Function Modifier
A	Analysis		Alarm		
B	Burner/Combustion		User's Choice	User's Choice	User's Choice
C	User's Choice			Control	Close
D	User's Choice	Differential			Deviation
E	Voltage		Sensor (Primary Element)		
F	Flow Rate	Ratio			
G	User's Choice		Glass, Viewing Device		
H	Hand				High
I	Current (Electrical)		Indicate		
J	Power		Scan		
K	Time, Time Schedule	Time Rate of Change		Control Station	
L	Level		Light		Low
M	User's Choice	Momentary			Middle, Intermediate
N	User's Choice		User's Choice	User's Choice	User's Choice
O	User's Choice		Orifice, Restriction		Open
P	Pressure / Vacuum		Point (Test Connection)		
Q	Quantity	Intergrate, Totalize	Integrate, Totalize		
R	Radiation		Record		
S	Speed / Frequency	Safety		Switch	Run
T	Temperature			Transmit	Stop
U	Multivariable		Multifunction	Multifunction	
V	Vibration / Mach. Analysis			Valve, Damper, Louver	
W	Weight / Force		Well, Probe		
X	Unclassified	X Axis	Accessory Devices, Unclassified	Unclassified	Unclassified
Y	Event / State / Presence	Y Axis		Auxiliary Devices	
Z	Position / Dimension	Z Axis		Drive, Actuator, Unclassified	

LEGEND	
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
E	ETHERNET IP

GENERAL ABBREVIATIONS	
ACP	AIR CONTROL PANEL
CHL	CHLORINE ANALYZER
CP	EQUIPMENT CONTROL PANEL
GAI	BUILDING INTRUSION ALARM
GF	GENERAL FAULT
GRI	START
GRO	RUN STATUS
HOA	HAND-TO-AUTOMATIC SWITCH
M	MAGNETIC FLOW METER
MT	MOTORIZED VALVE
NPW	NON-POTABLE WATER
PC	PARTICLE COUNTER
PH	PH ANALYZER
PT	PRESSURE TRANSDUCER
PV	PNEUMATIC VALVE
RAS	RETURN ACTIVATED SLUDGE
SI	SPEED IN
SO	SPEED OUT
TB	TURBIDIMETER
TS	THERMAL SENSOR
ULT	ULTRASONIC LEVEL TRANSDUCER
UV	ULTRAVIOLET DISINFECTION
WAS	WASTE ACTIVATED SLUDGE

1. FURNISH AND INSTALL INTERNALLY MOUNTED SURGE PROTECTION IN ALL PANEL BOARDS SQUARE D SURGELOGIC TVSS OR APPROVED EQUAL.
2. COORDINATE BREAKERS TO PREVENT UNNECESSARY TRIPPING OF BREAKERS IN PANELBOARDS AND CONTROL PANELS.
3. TYPICAL - # INDICATES REQUIRED I/O PER INDIVIDUAL INSTRUMENT.