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General	
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	INSTRU	MENT AND D	DEVICE IDENTIFIC	CATION TABLE	
	FIRST-LETTER)	SUCC	EEDING-LETTER:	S
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
Α	ANALYSIS OR SAMPLER		ALARM, TROUBLE		
В	BURNER FLAME		·		CLOSE, DECREASE (1)
С	CONDUCTIVITY			CONTROL	
D	DENSITY	DIFFERENTIAL			OPEN, INCREASE (1)
E	VOLTAGE (EMF)		SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)	FAILURE		
G	GAS		GLASS, VIEWING DEVICE, GUAGE (2)	GENERATOR (ULTRASONIC)	
Н	HAND (MANUAL)				HIGH
	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
К	TIME	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT (3)		LOW
М	MOTOR	MOMENTARY	OPERATE, ON/OFF		MIDDLE, INTERMEDIATE
Ν	MOISTURE			START	
0	TORQUE		ORIFACE, RESTRICTION	STOP, OVERLOAD	
Р	PRESSURE, VACUUM		POINT (TEST CONNECTION)		
Q	COMMON, QUANTITY	INTEGRATE, TOTALIZE			
R	RADIOACTIVITY		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
Τ	TEMPERATURE		TRANSMITTER		
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
٧	VIBRATION, MECHANICAL ANALYSIS, VALVE, DAMPER (4)			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL		
Χ	UNCLASSIFIED (5)	X AXIS	UNCLASSIFIED (5)	UNCLASSIFIED (5)	UNCLASSIFIED (5)
Υ	EVENT, STATE, OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

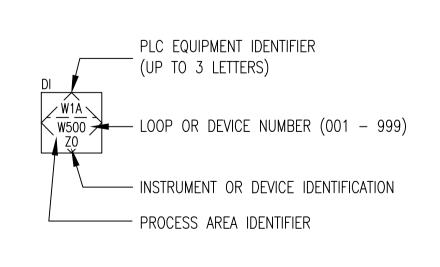
NOTES FOR INSTRUMENT AND DEVICE IDENTIFICATION TABLE:

- 1. WHEN THE B AND D LETTERS ARE TO REPRESENT AN OPEN AND CLOSED COMMAND OR POSITION, THEY ARE CURRENTLY OFTEN USED NOT AS A MODIFIER. BUT RATHER AS A READOUT OR OUTPUT FUNCTION. FOR EXAMPLE. SB RATHER THAN SCB.
- 2. IN CURRENT DRAWINGS, THE LETTER G IS OFTEN USED TO REPRESENT A GAUGE AS IN TG (TEMPERATURE GAUGE). HOWEVER, SINCE A TEMPERATURE GAUGE USUALLY HAS A SCALE TO READ A SPECIFIC TEMPERATURE, IT WOULD MORE CORRECTLY BE CALLED AN INDICATOR (TI). GAUGE IS INCLUDED FOR HISTORICAL REASONS.
- 3. ON CURRENT SEWPCC P&ID DRAWINGS, THE PILOT LIGHTS USUALLY OMIT THE L DESIGNATION. FOR EXAMPLE, A VALVE OPEN PILOT LIGHT IS DESIGNATED AS ZD. TECHNICALLY, THE APPROPRIATE IDENTIFIER IS ZLD, BUT ZD HAS BEEN MAINTAINED FOR HISTORICAL REASONS.
- 4. THE USE OF V AS AN INITIAL LETTER HAS BEEN INCORRECTLY USED IN THE PAST TO REPRESENT A VALVE OR A DAMPER, AND IS MAINTAINED IN THE IDENTIFICATION TABLE DUE TO ITS COMMON USE AS SUCH. HOWEVER, THESE INSTRUMENTS SHOULD IDEALLY BE RENAMED TO THE APPROPRIATE IDENTIFIERS. FOR EXAMPLE, MOST VY INSTRUMENTS (PNEUMATIC RELAYS) ON THE CURRENT DRAWINGS COULD BE RELABELLED AS HY OR FY INSTRUMENTS.
- 5. THE LETTER X IS TO BE DEFINED AT THE TIME OF USE, AND MAY BE USED FOR MULTIPLE DEFINITIONS WHERE NO OTHER LETTER IS APPLICABLE.

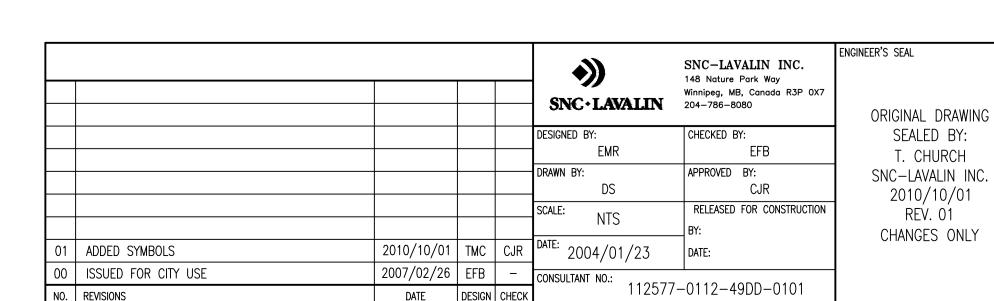
	INSTRUMENT FIELD	DEVICE IDE	NTIFIERS
IDENTIFIER	DEFINITION	IDENTIFIER	
AAH	ANALYSIS ALARM — HIGH	PSHH	PRESSURE S
AAHH AE	ANALYSIS ALARM — HIGH—HIGH ANALYSIS ELEMENT	PSL PSV	PRESSURE S
AL	ANALYSIS INDICATING TRANSMITTER (ANALYTIC INST.)	PT	PRESSURE T
AK	ANALYSIS (AMPLER) CONTROL STATION	PY	PRESSURE F
ASH	ANALYSIS SWITCH — HIGH	SI	SPEED INDIC
ASHH	ANALYSIS SWITCH — HIGH—HIGH	SK	SPEED CON
ASY AT	ANALYSIS SAFETY RELAY ANALYSIS TRANSMITTER (ANALYTIC INST.)	ST TE	SPEED TRAN
BK	BURNER CONTROL STATION	TG	TEMPERATUR
BS	BURNER FLAME SWITCH	TI	TEMPERATUR
BV	BURNER VALVE	TIC	TEMPERATUR
DE	DENSITY ELEMENT	TIT	TEMPERATUR
DR	DENSITY RECORDER	TR	TEMPERATUR
DT	DENSITY TRANSMITTER	TS	TEMPERATUR
DX EE	DENSITY SOURCE (X = SOURCE) VOLTAGE ELEMENT/TRANSFORMER	TSH TSL	TEMPERATUR TEMPERATUR
El	VOLTAGE INDICATOR	Π	TEMPERATUR
ET	VOLTAGE TRANSMITTER	TV	TEMPERATUR
FE	FLOW ELEMENT	TW	TEMPERATUR
FG	FLOW METER ULTRASONIC GENERATOR	TY	TEMPERATUR
FI	FLOW INDICATOR	XE	VELOCITY EL
FIC	FLOW INDICATING CONTROLLER	XI	VELOCITY IN
FIT FQI	FLOW INDICATING TRANSMITTER FLOW TOTALIZING INDICATOR	XK XT	UNCLASSIFIE POWER FAC
FQY	FLOW TOTALIZING / INTEGRATING RELAY	XT	VELOCITY TR
FR	FLOW RECORDER	XX	UNCLASSIFIE
FRC	FLOW RECORDING CONTROLLER	YS	COMPUTER
FRQ	FLOW RECORDING TOTALIZER	YSA	STATE SAFE
FSL	FLOW SWITCH LOW	YSL	STATE SAFE
FT FY	FLOW TRANSMITTER	ZI	POSITION IN
FY FY	FLOW VALVE FLOW COMPUTER / RELAY	ZS ZSB	POSITION SV
GE	GAS ELEMENT	ZSDL	POSITION SW
GS	GAS SWITCH MODULE	ZSH	POSITION SV
HK	HAND CONTROL STATION	ZSL	POSITION SV
HS	HAND SWITCH	ZT	POSITION TR
HSS	HAND SAFETY SWITCH	- NOTES F	OR INST
HV IS	HAND VALVE	_	
IE	CURRENT SWITCH CURRENT ELEMENT/TRANSFORMER		ST IDENTIFIER
	CURRENT INDICATOR		BLE IS DERIVE AND IS NOT E
ΙΥ	CURRENT RELAY		
KY	TIMER RELAY		
LCV	LEVEL CONTROL VALVE		
LE	LEVEL ELEMENT	_	
LI LIC	LEVEL INDICATOR LEVEL INDICATING CONTROLLER	\dashv	
LIT	LEVEL INDICATING TRANSMITTER		
LR	LEVEL RECORDER		
LSL	LEVEL SWITCH LOW		
LSH	LEVEL SWITCH HIGH		
LSHL	LEVEL SWITCH HIGH/LOW		
LT LV	LEVEL TRANSMITTER LEVEL VALVE	\dashv	
LY	LEVEL RELAY (I/I CONVERTER)	\dashv	
MB	MOTOR DECREASE OR REVERSE	\dashv	
MD	MOTOR INCREASE OR FORWARD		
MF	MOTOR FAILURE		
MM	MOTOR RUN	_	
NS	MOISTURE SWITCH	4	
PCV	PRESSURE CONTROL VALVE	\dashv	
DE	PRESSURE ELEMENT PRESSURE GAUGE	\dashv	
PE PG	PRE 2 2 15 15 15 15 15 15 15		
PG			
· -	PRESSURE INDICATOR PRESSURE INDICATING CONTROLLER		
PG PI	PRESSURE INDICATOR		
PG PI PIC	PRESSURE INDICATOR PRESSURE INDICATING CONTROLLER		

	INSTRUME	ENT IDENTIFICATION MODIFIER
	IDENTIFIER	DEFINITION
r	(N)	N MULTIPLE INSTRUMENTS
	AA	AUDIBLE ALARM
r	A/M	AUTO / MANUAL
ŀ	C/H	COMPUTER / HAND
ŀ	C/L	COMPUTER / LOCAL
┟	CLS	CLOSE
ŀ		
ŀ	C/O COB	COMPUTER / OFF COMPUTER / OFF / BYPASS
┢		
┝	СОН	COMPUTER / OFF / HAND
┝	COT	COMPUTER / OFF / TIME
F	DCS	DISTRIBUTED CONTROL SYSTEM
┝	DS	DECREASE SPEED
┝	E/R	EXTEND / RETRACT
┝	E/S	EMERGENCY STOP
L	FOR	FORWARD / OFF / REVERSE
L	H/A	HAND / AUTO
L	HOA	HAND / OFF / AUTO
L	HOR	HAND / OFF / REMOTE
L	I/D	INCREASE / DECREASE
L	INT/EXT	INTERNAL / EXTERNAL
L	IS	INCREASE SPEED
L	LCP	LOCAL CONTROL PANEL
L	LD	LOCKABLE DISCONNECT
L	LJB	LOCAL JUNCTION BOX
L	L/0	LOCAL / OFF
L	LOR	LOCAL / OFF / REMOTE
L	LOS	LOCK OFF STOP
L	L/R	LOCAL / REMOTE
L	LSR	LOCAL / STOP / REMOTE
L	MCC	MOTOR CONTROL CENTER
L	O/A	OFF / AUTO
L	0/C	OPEN / CLOSE
L	O/M	OFF / MAINTENANCE
L	0/0	OFF / ON
L	OPN	OPEN
L	RST	RESET
L	RTD	RESISTIVE TEMPERATURE DEVICE
L	SEL	SELECTOR
L	S/F	SLOW / FAST
L	SOF	SLOW / OFF / FAST
L	SOL	SOLENOID
L	S/S	START / STOP
L	S/W	SUMMER / WINTER
L	TAH	TEMPERATURE ALARM HIGH
L	TAL	TEMPERATURE ALARM LOW
L	TSH	TEMPERATURE SWITCH HIGH
L	TSL	TEMPERATURE SWITCH LOW
	T/C	THERMOCOUPLE
	VIB	VIBRATION

INICTOLIMENT IDENTIFICATION MODIFIED INSTRUMENT FIELD DEVICE NUMBERING INSTRUMENT IDENTIFICATION — PROCESS AREA IDENTIFIER —— LOOP OR DEVICE NUMBER (001-999) — INSTRUMENT ID — MAX. OF 4 LETTERS AS PER IDENTIFICATION TABLE — DEVICE SUFFIX FOR MULTIPLE DEVICES ON THE SAME LOOP CONTROL SYSTEM (DCS) POINT TAG NUMBERING COMPUTER SYSTEM EQUIPMENT LOCATION IDENTIFIER (2 LETTERS) P301 - LOOP OR DEVICE NUMBER (001 - 999) - INSTRUMENT OR DEVICE IDENTIFICATION — PROCESS AREA IDENTIFIER OR COMPUTER SYSTEM EQUIPMENT LOCATION IDENTIFIER (2 LETTERS) - PROCESS AREA IDENTIFIER P301 LOOP OR DEVICE NUMBER (001 - 999) FT 🛨 INSTRUMENT OR DEVICE IDENTIFICATION DEVICE SUFFIX FOR MULTIPLE DEVICES ON THE SAME LOOP PLC POINT TAG **NUMBERING** — PLC EQUIPMENT IDENTIFIER LOOP OR DEVICE NUMBER (001-999) - INSTRUMENT ID - MAX. OF 4 LETTERS AS PER IDENTIFICATION TABLE - DEVICE SUFFIX FOR MULTIPLE DEVICES ON THE SAME LOOP



OR



DEFINITION

PRESSURE SWITCH HIGH (2ND STAGE)

PRESSURE SAFETY VALVE (RELIEF)

PRESSURE RELAY (I/I CONVERTER)

TEMPERATURE INDICATING CONTROLLER

TEMPERATURE INDICATING TRANSMITTER

TEMPERATURE RELAY (SOLENOID VALVE OR M/P)

UNCLASSIFIED CONTROL STATION (X = FIRE)

VELOCITY TRANSMITTER (X = VELOCITY)

UNCLASSIFIED (XX = ALARM ANNUNCIATOR)

POSITION SWITCH CLOSED (LIMIT SWITCH)

NOTES FOR INSTRUMENT FIELD DEVICE IDENTIFIERS

1. THE LAST IDENTIFIER LETTER IS IN SOME CASES OPTIONAL (EG. FSL)

2. THIS TABLE IS DERIVED FROM THE INSTRUMENT & DEVICE IDENTIFICATION

POSITION SWITCH OPEN (LIMIT SWITCH)

PRESSURE SWITCH LOW

PRESSURE TRANSMITTER

SPEED CONTROL STATION

TEMPERATURE ELEMENT

TEMPERATURE INDICATOR

TEMPERATURE RECORDER TEMPERATURE SWITCH

TEMPERATURE SWITCH HIGH

TEMPERATURE SWITCH LOW

TEMPERATURE TRANSMITTER

TEMPERATURE THERMOWELL

POWER FACTOR TRANSMITTER

TEMPERATURE VALVE

VELOCITY ELEMENT

COMPUTER SWITCH

STATE SAFETY ALARM

STATE SAFETY LIGHT

POSITION INDICATOR

POSITION SWITCH HIGH

POSITION SWITCH LOW

POSITION TRANSMITTER

TABLE. AND IS NOT EXHAUSTIVE.

POSITION SWITCH

VELOCITY INDICATOR

TEMPERATURE GAUGE

SPEED INDICATOR

SPEED TRANSMITTER



CITY DRAWING NUMBER

<u>/01\</u>

THE CITY OF WINNIPEG Winnipeg WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE

PROCESS AND INSTRUMENT DIAGRAMS LEGEND AND DETAILS

> SHEET | REV. | SIZE 002 | 01 | A1

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