

INSTRUMENT AND DEVICE IDENTIFICATION TABLE				
FIRST-LETTER		SUCCEEDING-LETTERS		
MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS OR SAMPLER	ALARM, TROUBLE		
B	BURNER FLAME			CLOSE, DECREASE
C	CONDUCTIVITY		CONTROL	
D	DENSITY	DIFFERENTIAL		OPEN, INCREASE
E	VOLTAGE (EMF)	SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)	FAILURE	
G	GAS	GLASS, VIEWING DEVICE	GENERATOR (ULTRASONIC)	
H	HAND (MANUAL)			HIGH
I	CURRENT (ELECTRICAL)	INDICATE		
J	POWER	SCAN		
K	TIME	TIME RATE OF CHANGE	CONTROL STATION	
L	LEVEL	LIGHT		LOW
M	MOTOR	MOMENTARY	OPERATE, ON/OFF	MIDDLE, INTERMEDIATE
N	MOISTURE		START	
O	TORQUE	ORIFICE, RESTRICTION	STOP, OVERLOAD	
P	PRESSURE, VACUUM	POINT (TEST CONNECTION)		
Q	COMMON, QUANTITY	INTEGRATE, TOTALIZE		
R	RADIOACTIVITY	RECORD		
S	SPEED, FREQUENCY	SAFETY	SWITCH	
T	TEMPERATURE	TRANSMITTER		
U	MULTIVARIABLE	MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS, VALVE, DAMPER (2)		VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE	WELL		
X	UNCLASSIFIED (1)	X AXIS	UNCLASSIFIED (1)	UNCLASSIFIED (1)
Y	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:

- 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.
- THE USE OF V AS AN INITIAL LETTER TO REPRESENT A VALVE OR A DAMPER DOES NOT MEET THE INTENT OF ISA STANDARD 5.1, AND ITS CURRENT USE SHOULD BE REVIEWED.

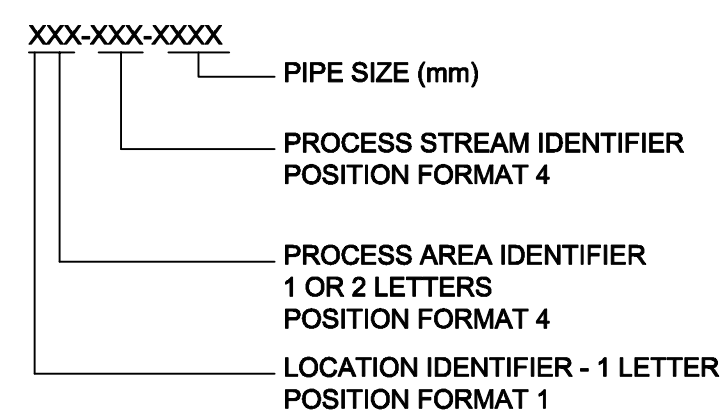
POSITION FORMATS

<p>1. LOCATION IDENTIFIER - 1 LETTER</p> <p>I INTAKE D DEACON T TACHE C CENTRAL CONTROL - MCPHILLIPS H HURST L MACLEAN M PERIMETER ROAD PUMPING STATION P MCPHILLIPS Q DISTRIBUTION SYSTEM W WATER TREATMENT PLANT (FUTURE) A AQUEDUCT R RIVER</p> <p>2. PLC OR RTU IDENTIFIER - 1 LETTER</p> <p>- ASCENDING FROM A TO Z - USE "M" FOR STATION MASTER</p> <p>3. PROCESS AREA - UP TO 2 LETTERS</p> <p>C CHLORINE S SUCTION D DISCHARGE R RESERVOIR T TELEMETERING E ELECTRIC DRIVE G GAS DRIVE H HVAC Z GENERAL STATION FUNCTIONS (UTILITIES) SA SARGENT AVENUE AND ST. JAMES STREET RR ROUGE ROAD AND ASSINIBOINE AVENUE JB JOHN BLACK AVENUE AND MAIN STREET IB INKSTER BOULEVARD AND BROOKSIDE BOULEVARD GR GATEWAY ROAD AND SPRINGFIELD ROAD PR PLESSIS ROAD AND DEVONSHIRE DRIVE LB LAGIMODIERE BOULEVARD AT OFFTAKE TO SMUGGLER'S COVE PC PADDINGTON ROAD AND CHARING CROSS CRESCENT PH PEMBINA HIGHWAY AND CHANCELLOR MATHESON ROAD RS REDONDA STREET AND KILDARE AVENUE RV RUE DES TRAPPISTES AND VILLENEUVE BOULEVARD FG FORT GARRY BRIDGE JA JAMES AVENUE KB KILDONAN BRIDGE</p>	<p>4. PROCESS STREAM IDENTIFIER - 3 DIGITS</p> <p>001 TO 039 AQUEDUCT AND RESERVOIR PIPING SUCTION HEADER 040 041 TO 049 PIPING AND EQUIPMENT BETWEEN SUCTION AND DISCHARGE HEADER 050 DISCHARGE HEADER 051 TO 059 BRANCHES OFF DISCHARGE 100 TO 599 EXTERIOR PIPING AND DISTRIBUTION SYSTEM 599 REMOTE PRESSURE POINTS 600 TO 699 HVAC 800 TO 899 CHEMICAL SYSTEMS 800 TO 829 CHLORINE 830 TO 839 AMMONIA 840 TO 849 FLOURIDE 850 TO 899 MISC.</p> <p>900 TO 999 GENERAL UTILITIES 900 TO 909 AIR PRESSURE 910 TO 919 ELECTRICAL DISTRIBUTION 920 TO 929 BUILDING SAFETY AND SECURITY 930 TO 939 SUMPS 940 TO 949 FLOOD 950 TO 959 FLUSH WATER 960 TO 969 GAS (NATURAL) 970 TO 999 MISC. 999 RIVER MONITORING</p> <p>5. INSTRUMENT OR DEVICE IDENTIFICATION - 2-4 LETTERS</p> <p>- REFER TO TABLE AT LEFT</p> <p>6. EQUIPMENT DESIGNATION - 2-4 LETTERS</p> <p>- REFER TO EQUIPMENT LIST AT RIGHT</p> <p>7. PLC IDENTIFIER - 1 LETTER</p> <p>- FROM A TO Z IF APPLICABLE, IE. CONTROLLER, SETPOINT, OUTPUT, ETC. - 0 IF THE INFORMATION IS NOT EXPLICITLY ASSOCIATED WITH A PARTICULAR PLC</p> <p>8. INTERNAL VALUE - 1 LETTER</p> <p>A - CONTROL VALUE C - CALCULATION E - OPERATOR ENTRY M - MANUAL DATA</p> <p>9. SERIES NUMBER - UP TO 3 DIGITS OR LETTERS</p> <p>- ANY COMBINATION OF THREE LETTERS AND/OR NUMBERS</p>
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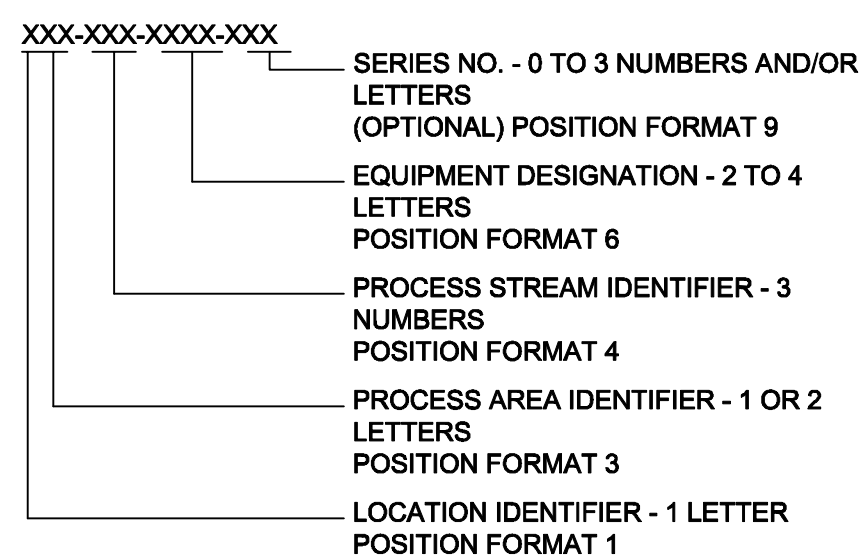
EQUIPMENT IDENTIFIERS	
AEF	AXIAL EXHAUST FAN
AHU	AIR HANDLING UNIT
EF	EXHAUST FAN
F OR FN	FAN
MAU	MAKE-UP AIR UNIT
SF	SUPPLY FAN
SMP	SUMP PUMP
VFD	VARIABLE FREQUENCY DRIVE

INSTRUMENT FIELD DEVICE IDENTIFIERS	
FS	FLOW SWITCH
FT	FLOW TRANSMITTER
HK	HAND CONTROL STATION
HS	HAND SWITCH
MM	MOTOR RUN
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PI	PRESSURE INDICATOR
PIT	PRESSURE INDICATING TRANSMITTER
PS	PRESSURE SWITCH
PT	PRESSURE TRANSMITTER
S/S	SELECTOR SWITCH
TS	TEMPERATURE SWITCH
TT	TEMPERATURE TRANSMITTER
YS	COMPUTER SWITCH
ZI	POSITION INDICATOR
ZS	POSITION SWITCH
ZSB	POSITION SWITCH CLOSED
ZSD	POSITION SWITCH OPEN

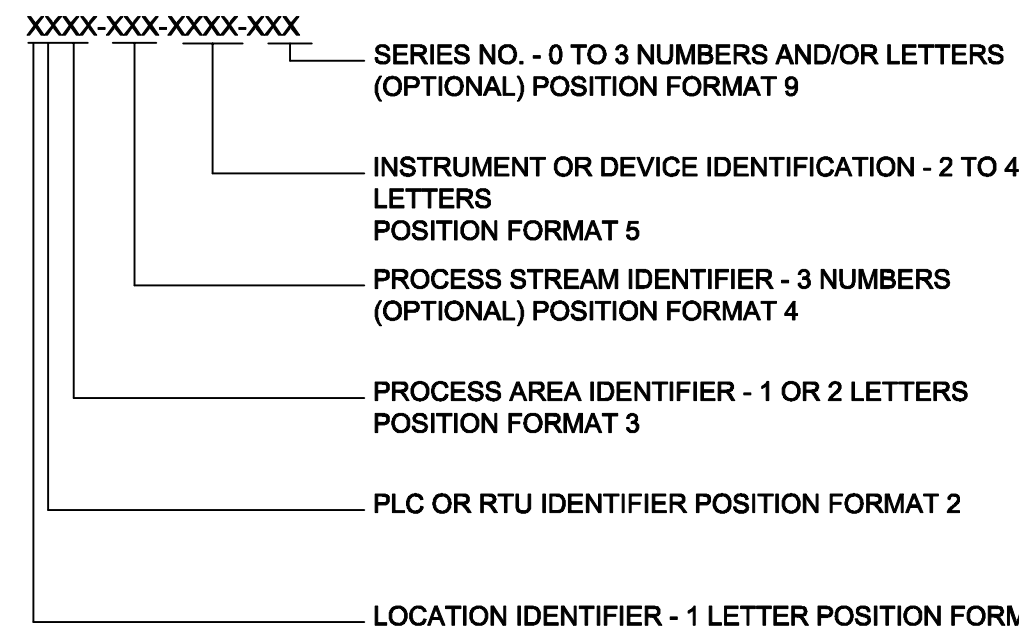
PROCESS LINE IDENTIFIERS



EQUIPMENT IDENTIFICATION

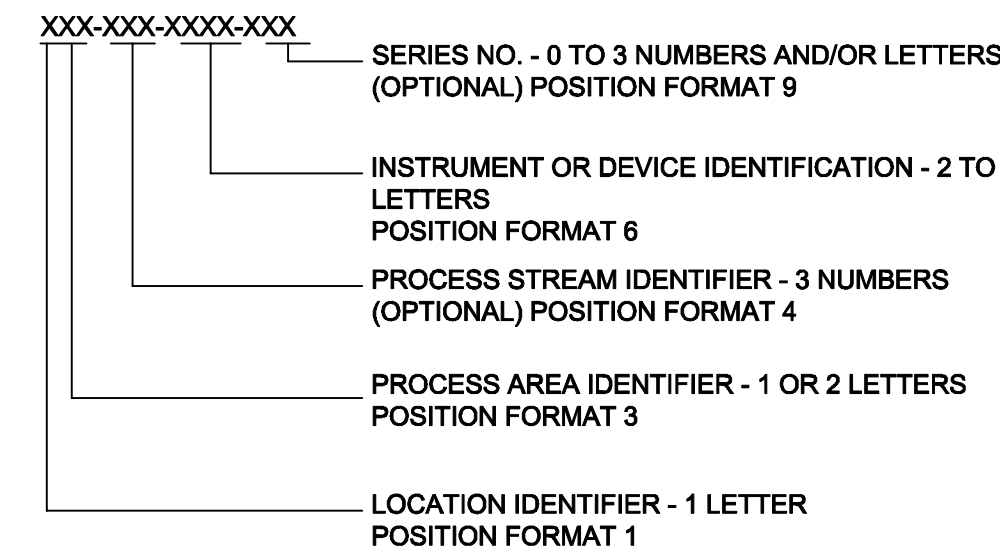


INPUT/OUTPUT (I/O) IDENTIFICATION



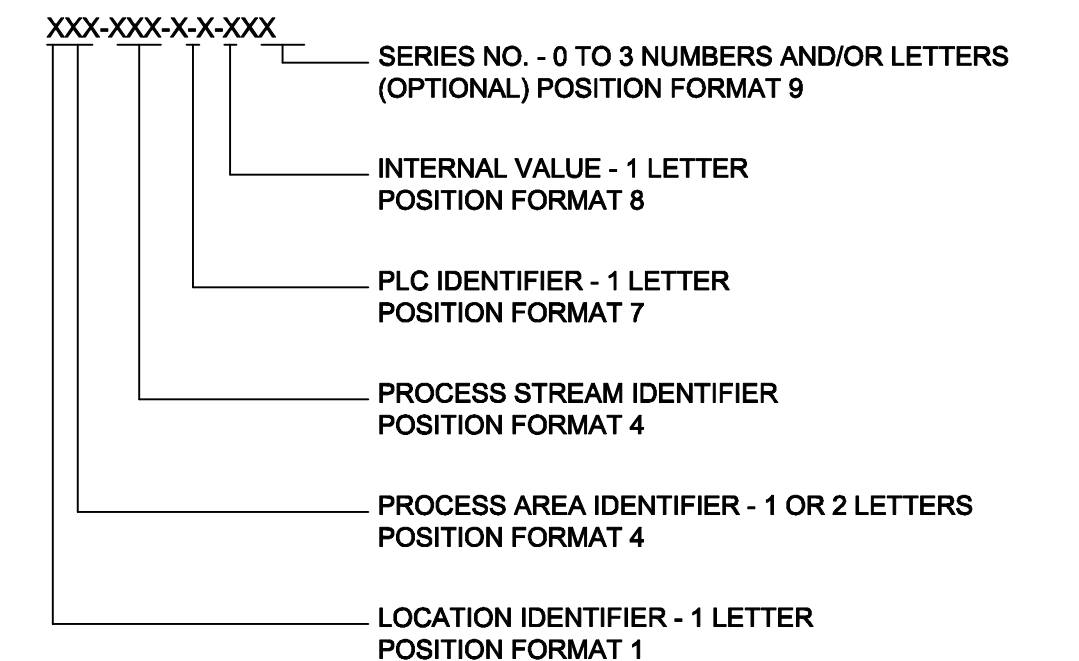
APPEARS IN BALLOON

FIELD DEVICES AND INSTRUMENTATION



APPEARS IN BALLOON

INTERNAL SOFTWARE POINT IDENTIFICATION



QL	RS	BM	BM	BF
DRN	CHK	DES	ENG	IDR
UMA REVIEW				

B.M. ELEV.	FIELD BOOK #:	UMA AECOM	
POSTED TO LBIS		DESIGNED BY BLM	CHECKED BY ----
		DRAWN BY SCK	APPROVED BY --
		HOR. SCALE AS NOTED	RELEASED FOR CONSTRUCTION
		VERTICAL AS NOTED	
B	ISSUED FOR BID	07/12/14	SCK
A	ISSUED FOR 100% REVIEW	07/11/09	RS
NO.	REVISIONS	DATE	BY

ENGINEER'S SEAL	
ISSUE / REVISION D	
ISSUED FOR BID WAS SEALED BY B.L. MOORE AND DATED 07/12/14	

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

PERIMETER ROAD PUMPING STATION UPGRADES
Contract B - Building Upgrades

Process and Instrumentation SYMBOLS LEGEND

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0111L-P0002	001	B	D