ISA Instrument Letter Codes Table (ISA 5.1)

Basis: ANSI/ISA 5.1 Instrumentation Symbols and Identification. 'User's choice' letters must be defined in the project legend.

instrumentationblog.in/downloads/engineering-reference-tables/isa-instrument-letter-codes-table/

ISA 5.1 identification letters

Letter	First letter (measured variable)	Succeeding letter (function)	Modifier
A	Analysis	Alarm	
B	Burner, combustion	User's choice	User's choice
C	User's choice	Control	Close
D	User's choice		Differential (modifier)
E	Voltage	Sensor, primary element	
F	Flow		Ratio (modifier)
G	User's choice	Glass, gauge, viewing device	
H	Hand		High
I	Current	Indicate	
J	Power		Scan (modifier)
K	Time, schedule	Control station	Time rate of change (modifier)
L	Level	Light	Low
M	User's choice		Middle, intermediate
N	User's choice	User's choice	User's choice
O	User's choice	Orifice, restriction	Open
P	Pressure	Point (test connection)	
Q	Quantity	Integrate, totalise	Integrate (modifier)
R	Radiation	Record	Run
S	Speed, frequency	Switch	Safety (modifier), stop
T	Temperature	Transmit	
U	Multivariable	Multifunction	
V	Vibration, machine analysis	Valve, damper, louver	
W	Weight, force	Well, probe	
X	Unclassified	Unclassified	Unclassified
Y	Event, state, presence	Relay, compute, convert	

Z	Position, dimension	Driver, actuator	

Common tag examples

Tag	Meaning
PT	Pressure transmitter
FT	Flow transmitter
LT	Level transmitter
TT	Temperature transmitter
PDT	Differential pressure transmitter
FE	Flow element (orifice, meter body)
TE	Temperature element (RTD, thermocouple)
PI	Pressure indicator (gauge)
LG	Level gauge (sight glass)
FIC	Flow indicating controller
LIC	Level indicating controller
FCV	Flow control valve
PSV	Pressure safety valve
XV	On off valve
LSHH	Level switch high high
PAL	Pressure alarm low
TW	Thermowell
FQI	Flow totaliser indicator
ZSO	Position switch open
SDV	Shutdown valve (common practice)

Notes

- SDV, ESDV and similar tags are common practice rather than strict ISA 5.1.
- Check the project P&ID legend for user's choice letters.

Free download from instrumentationblog.in. Check values against the current edition of the standard for design work.