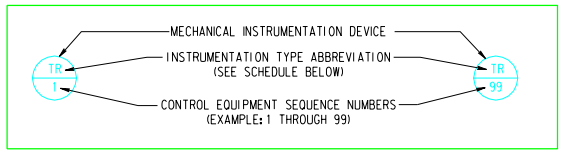
INSTRUMENTATION TYPE ABBREVIATION LIST



(Source ISA)

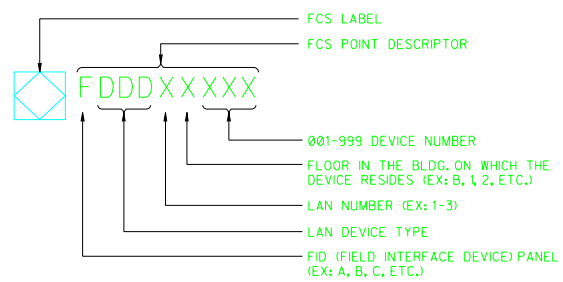
CODE-TYPE	DESCRIPTION
E	VOLTAGE
EI	VOLTAGE INDICATOR
EA	VOLTAGE ALARM
ES	VOLTAGE SWITCH
ESL	VOLTAGE SWITCH-LOW (120 VAC OR LESS)
ET	VOLTAGE TRANSMITTER
EY	VOLTAGE SIGNAL CONVERTER
F	FLOW RATE
FA	FLOW ALARM
FC	FLOW CONTROLLER (STAND ALONE)
FCV	FLOW CONTROL VALVE
FE	FLOW ELEMENT
FET	FLOW ELEMENT/TRANSMITTER
FI	FLOW INDICATOR
FIT	FLOW INDICATING TRANSMITTER
FQ	FLOW TOTALIZER
FQA	FLOW TOTALIZER INDICATOR
FS	FLOW SWITCH
FT	FLOW TRANSMITTER
FY	FLOW SIGNAL CONVERTER
G	GAUGE
H	HAND
HK	MANUAL VARIABLE CONTROL
HS	HAND SWITCH (START/STOP)
HSI	HAND SWITCH INDICATOR
I	CURRRENT
II	CURRENT INDICATOR
IA	CURRENT ALARM
IS	CURRENT SWITCH
IT	CURRENT TRANSMITTER
IY	CURRENT SIGNAL CONVERTER
J	POWER
JIT	POWER INDICATING TRANSMITTER
JY	POWER SIGNAL CONVERTER
K	TIME
KI	TIMER/COUNTER (DERIVED)
KY	TIMER/COUNTER (FIELD DEVICES)
L	LEVEL
LA	LEVEL ALARM
LC	LEVEL CONTROLLER (STAND ALONE)
LCV	LEVEL CONTROL VALVE
LE	LEVEL ELEMENT
LIC	LEVEL INDICATING CONTROLLER
LIT	LEVEL INDICATING TRANSMITTER
LS	LEVEL SWITCH
LT	LEVEL TRANSMITTER
LY	LEVEL SIGNAL CONVERTER
M	MOTION MOMENTARY
MV	MANUAL HAND VALVE
N	HUMIDITY
O	USER CHOICE
P	PRESSURE, VACUUM
PA	PRESSURE ALARM
PCV	PRESSURE CONTROL VALVE
PD	PNEUMATIC DAMPER ACTUATOR
PDI	PRESSURE DIFFERENTIAL INDICATOR
PDS	PRESSURE DIFFERENTIAL SWITCH
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PDZ	DAMPER POSITIONER
PI	PRESSURE INDICATOR
PIC	PRESSURE INDICATING CONTROLLER
PIS	PRESSURE INDICATING SWITCH
PIT	PRESSURE INDICATING TRANSMITTER
PRV	PRESSURE INDUCING VALVE
PS	PRESSURE SWITCH
PSS	PRESSURE SAFTEY SWITCH
PSY	PRESSURE SAFTEY VALVE
PT	PRESSURE TRANSMITTER
PY	PRESSURE SIGNAL CONVERTER

CODE-TYPE	DESCRIPTION
Q	QUANTITY
QA	FAULT INDICATION (DERIVED)
QE	PREPTURE DISK
QI	STATUS INDICATOR (DERIVED)
QL	STATUS INDICATOR (FIELD)
QS	FAULT CONTACT
S	SPEED, FREQUENCY
SC	SPEED CONTROL
SCM	SPEED CONTROL MANUAL
SS	START STOP
ST	STATUS
T	TEMPERATURE
TA	TEMPERATURE ALARM
TC	TEMPERATURE CONTROLLER
TCV	TEMPERATURE CONTROL VALVE
TE	TEMPERATURE ELEMENT
TET	TEMPERATURE ELEMENT TRENSMITTER
TI	TEMPERATURE INDICATOR
TIT	TEMPERATURE INDICATING TRANSMITTER
TIC	TEMPERATURE INDICATING CONTROLLER
TS	TEMPERATURE SWITCH
TSL	TEMPERATURE STAT
TT	TEMPERATURE TRANSMITTER
TY	TEMPERATURE SIGNAL CONVERTER
V	VIBRATION, MECHANICAL ANALYSIS
VA	VIBRATION ALARM
VS	VIBRATION SWITCH
X	UNCLASSIFIED
XV	SOLENOID VALVE
XY	VALVE ACTUATOR
Y	EVENT, STATE OR PRESENCE
YCD	SMOKE DAMPER
YS	SMOKE DETECTOR
Z	POSITION DIMENSION
ZI	POSITION INDICATOR
ZS	POSITION SWITCH

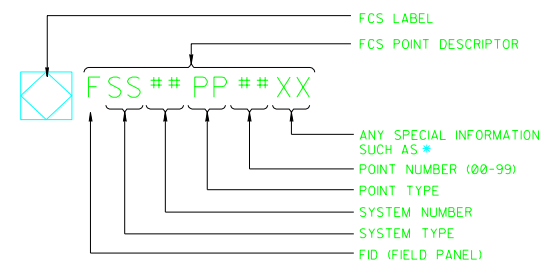
FCS POINT DESCRIPTORS

SANDIA'S POINT IDENTIFICATION SCHEME WAS DEVELOPED SO THAT EACH FCS POINT UNIQUELY INDICATES THE TYPE OF SYSTEM AND FUNCTION OF THE POINT. THE SCHEME IS USED TO CREATE A 12 CHARACTER DESCRIPTION FOR AN INSIGHT CABINET POINT LOG. THE 8-CHARACTER SYSTEM TYPE/NUMBER AND POINT TYPE/NUMBER PORTIONS OF THE DESCRIPTION FORM THE POINT LABEL USED BY SANDIA ON ALL CONSTRUCTION DRAWINGS.

DESCRIPTOR FOR NON APOGEE FLOOR LEVEL NETWORK DEVICES



POINT DESCRIPTOR FOR NON APOGEE HARDWARE POINTS



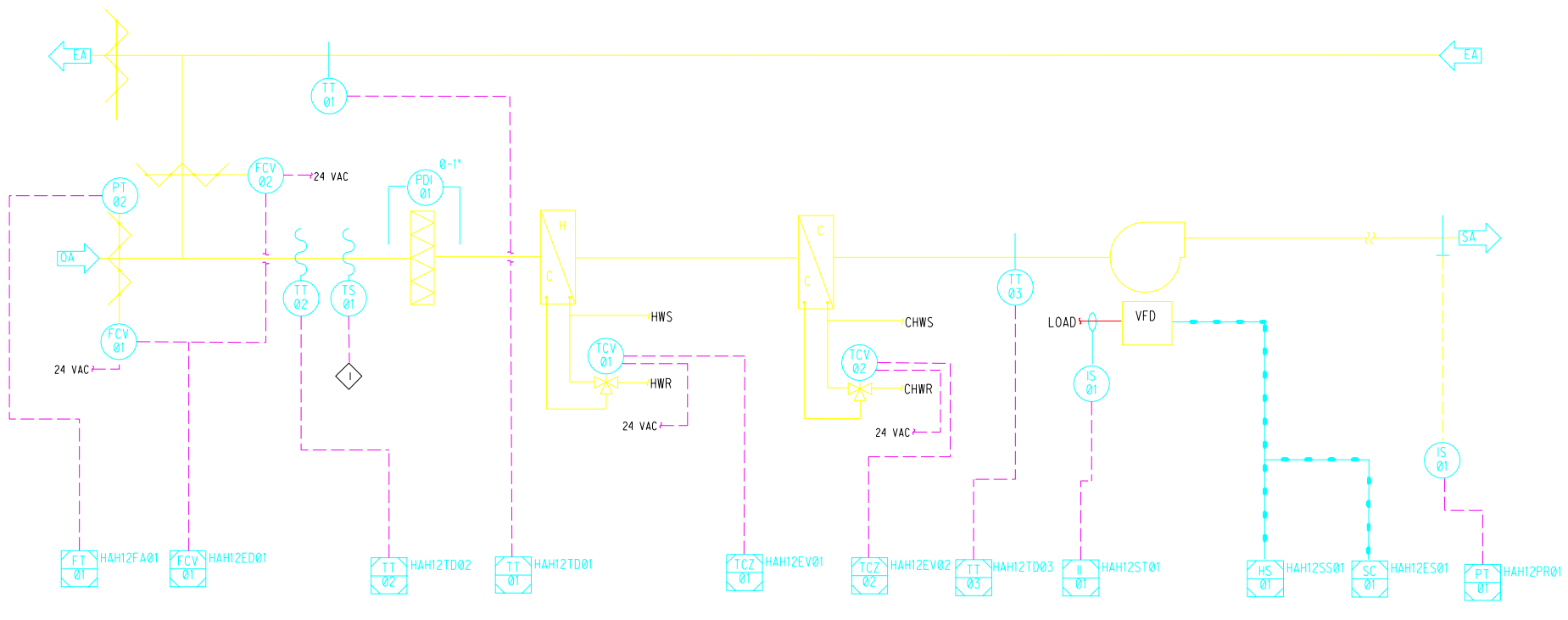
* SUCH AS:

CP (CALCULATED POINT)	_C (CRITICAL POINT)
DP (DERIVED POINT)	VC (VIRTUAL ALARM)
SP (SETPOINT)	VP (VIRTUAL POINT)

REFER TO DRAWING MI6002STD.DGN FOR DESCRIPTORS

GENERAL NOTES

1. ALL ITEMS MOUNTED IN A PANEL ARE DISTINGUISHED BY USING AN ASTERICK NEXT TO THE LABEL.
2. REFERENCE DRAWINGS MI500STD.DNG AND MI6002STD.DGN FOR ADDITION CONTROL SYSTEMS DESIGN.



EXAMPLE AIR HANDLING UNIT

SCALE: NONE

ABBREVIATIONS

IA	INSTRUMENTATION AIR
DDC	DIRECT DIGITAL CONTROL
C	COMMON VALVE PORT
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
SR	SPRING RANGE
TR	THROTLLING RANGE
PH	PREHEAT
HR	HEAT RECOVERY
CPA	CONTROL POINT ADJUSTMENT
SPDT	SINGLE POLE DOUBLE THROW
DPDT	DOUBLE THROW DOUBLE POLE
DA	DIRECT ACTING
RA	REVERSE ACTING

LINE LEGEND

- - - - -	ELECTRICAL CONTROL SIGNAL
———	ELECTRICAL POWER SIGNAL
//—//—	PNEUMATIC SIGNAL
— • — • —	DATA LINK (LAN) COMM/ INTERNAL SYSTEM LINE

REV	DATE	DESCRIPTION	DWN	CKD	APP
A	10/2001	REVISED	ELG	MFR	GOD

P.O.
PROJECT NO.

U.S. DEPARTMENT OF ENERGY
KIRTLAND AREA OFFICE — ALBUQUERQUE, NEW MEXICO

SANDIA NATIONAL LABORATORIES

FCS CONTROLS LABELING

P.O.	
PROJECT NO.	EP 7649
DRAWN BY	E. L. GORE
CHECKED BY	M. ROCCO
SNL ENGR	
DATE	9-1-01
SEQ.	

MECHANICAL — STANDARD

SIZE D+ — DRAWING NO MI6001STD

MICROSTATION FILE
FILE NAME: MI6001STD.DGN
REFERENCE FILES: BORDER3.DGN

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