

SECTION "A"

SYSTEM TYPE DESIGNATORS ARE:

AH	AIR HANDLER
BG	BLDG. GENERAL (CONTROL, ALARM, ETC.)
BR	BOILER HW SYSTEM
CB	CONTAINMENT BOX
CH	CHILLER/CHW SYSTEM
CT	COOLING TOWER
CV	STEAM CONVERTER HW SYSTEM
DX	DIRECT EXPANSION COOLING UNIT
EF	EXHAUST FAN SYSTEM
ET	EVAPORATIVE TANK SYSTEM
HX	HEAT EXCHANGER
LI	LIGHTING INVERTER SYSTEM
MA	MAKEUP AIR SYSTEM
PW	PROCESS WATER SYSTEM
RA	RECIRCULATING AIR
SC	SCRUBBER
SF	SERVICE FAN SYSTEM
TU	TERMINAL UNIT
WT	WASTE TANK SYSTEM

POINT TYPE DESCRIPTIONS

OUTPUTS

DIGITAL OUTPUTS (D0)

OC	OPEN/CLOSE CONTROL
SS	START/STOP OR ON/OFF CONTROL

ANALOG OUTPUTS (A0)

DA	DISPLAY OUTPUT, ANALOG
ED	ELECTRONIC DAMPER MOTOR OPERATOR
ES	ELECTRONIC SPEED CONTROL (VFC)
EV	ELECTRONIC VALVE OPERATOR
ER	ELECTRONIC RESET
FC	FAN CAPACITY CONTROL (BLADE/VANE PITCH)
PD	PNEUMATIC DAMPER OPERATOR
PS	PNEUMATIC SEQUENCING CONTROL
PV	PNEUMATIC VALVE

FOR SITE SPECIFIC SYSTEMS NOT IN THIS LIST, CONTACT SNL FCS ORG. 1 0848.

INPUTS

DIGITAL INPUTS (D1)

AA	ALARM, MISCELLANEOUS
AB	ALARM, BOILER
AC	ALARM, CHILLER
AF	ALARM, FIRE
AH	ALARM, HUMIDITY
AL	ALARM, LEVEL
AP	ALARM, PRESSURE
AT	ALARM, TEMPERATURE
AV	ALARM, VIBRATION
MB	METER, BTU PULSE
ME	METER, ELECTRIC PULSE
MG	METER, GAS PULSE
MS	METER, STEAM PULSE
MW	METER, WATER PULSE
ST	EQUIPMENT STATUS

ANALOG INPUTS (A1)

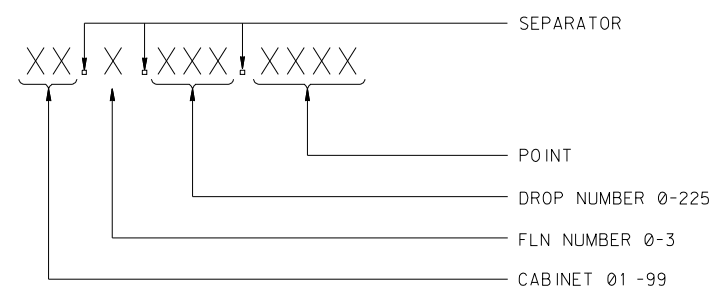
AO	AIR QUALITY
AR	ALARM REFRIGERANT
CU	CURRENT
FB	FEEDBACK
FO	FREQUENCY
FW	FLOW, WATER
HD	HUMIDITY, DUCT
HR	HUMIDITY, ROOM
LT	LEVEL, TANK
LR	LEVEL, REFRIGERANT
MA	AIRFLOW MEASURING STATION
PA	PRESSURE AIR
PB	PRESSURE BUILDING STATIC
PS	PRESSURE STEAM
PW	PRESSURE WATER
PH	WATER PH
PR	PRESSURE GENERAL
SP	SETPOINT, DIAL
TD	TEMPERATURE, DUCT
TG	TEMPERATURE, GAS
TR	TEMPERATURE ROOM
TT	TEMPERATURE, TANK
TW	TEMPERATURE, WATER
WX	WEATHER STATION

FLOOR LEVEL NETWORK (FLN) DEVICE TYPES
TERMINAL EQUIPMENT CONTROL DEVICES

CVE	CONSTANT VOLUME EXHAUST
FCU	FAN COIL CONTROLLER
FHC	FUME HOOD CONTROLLER
LOC	LABORATORY OFFSET CONTROLLER
VAV	VARIABLE AIR VOLUME
VFC	VARIABLE FREQUENCY CONTROLLER
RPM	ROOM PRESSURIZATION MONITOR
SLC	SLAVE CONTROLLER
DEM	DIGITAL ENERGY MONITOR

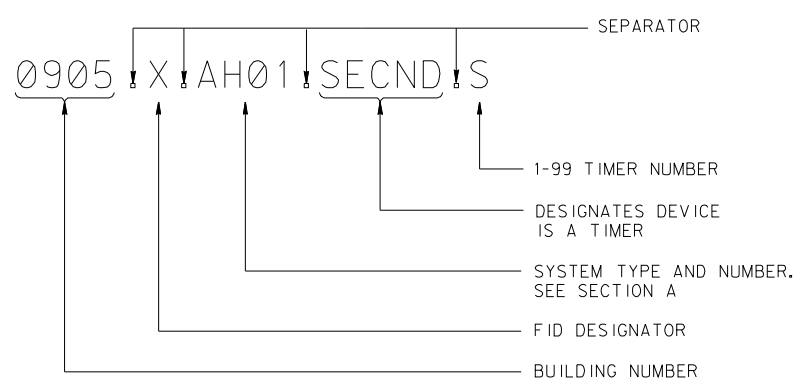
SECTION "B"

PHYSICAL AND LAN POINT ADDRESS (APOGEE)



- FLN = 0 FOR CABINET HARDWARE POINT, 1-3 FOR FLN DEVICES
- DROP = 0 FOR PHYSICAL POINTS, DESIGNATES MODULE ADDRESS KEY NUMBER (001-255); SEE DRAWING M15001 STD.DGN, FID MODULE WIRING DETAILS & MBC CABINET DETAIL FOR MORE INFORMATION. FOR FLN DEVICE, DESIGNATES LAN DEVICE ADDRESS (001-099).
- POINT = FOR PHYSICAL POINTS, DESIGNATES THE LOCATION OF THE POINT IN THE MODULE. MODULES CAN HAVE 1 TO 4 POINTS DEPENDING ON THE TYPE. POINTS ARE ADDRESSED FROM RIGHT TO LEFT IN A MODULE. FOR FLN DEVICES, DESIGNATES THE FLN DEVICE POINT ADDRESS (001-099).

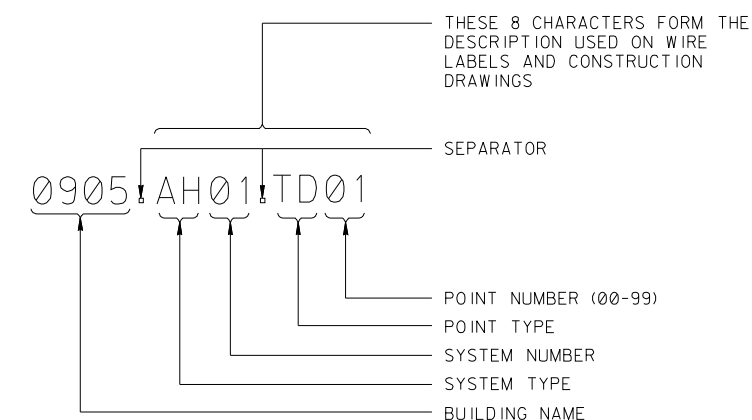
VIRTUAL TIMERS (APOGEE)



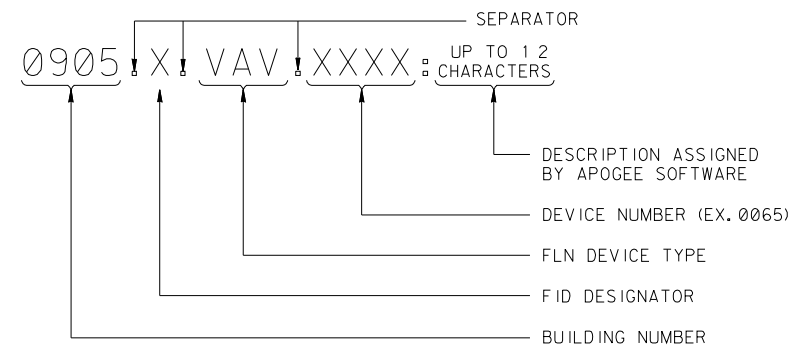
SECTION "C"

LOGICAL POINT NAME IDENTIFICATION KEY
APOGEE FID

HARDWARE NON-FLN POINTS

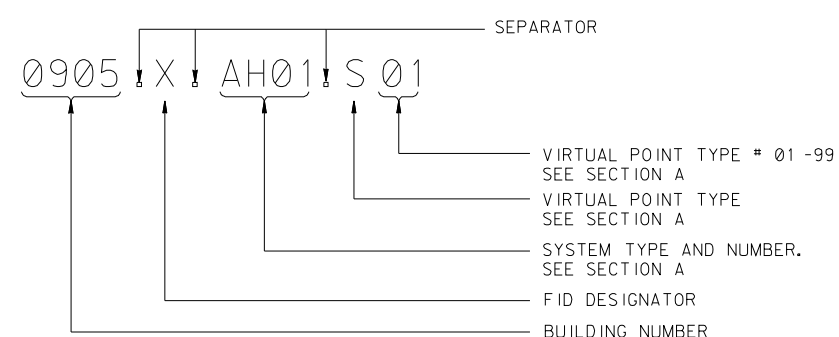


HARDWARE FLN NAMES (APOGEE)



VIRTUAL POINT NAME (APOGEE)

(FOR PROGRAMMING USE ONLY)



VIRTUAL POINT TYPE KEY (CONT'D)

- G = MISC GAIN
- H = HOLIDAY
- J = SSTO VARIABLE
- K = ELECTRICAL USAGE (KWH)
- L = LEAD/LAG/STANDBY SELECTOR
- M = ENHANCED ALARM MODE PTS
- N = NIGHT VENT
- O = OUTSIDE AIR VALUES
- Q = AUTODIAL DISABLE
- R = (OPEN)
- S = SETPOINTS
- T = MIN/MAX/AVG TEMPS, ETC
- U = (OPEN)
- V = VIRTUAL LDO STATUS
- W = WEEKEND
- X = CALCULATED VALUES (CONT'D)

VIRTUAL POINT TYPE KEY

- A = ALARMS
- B = BLDG/SYS RUN CONTROL
- C = CALCULATED VALUES
- D = DEMAND POINTS
- E = ENTHALPY
- F = FLOW

OLD FILENAME:
FILENAME: mi6002std.dgn

△					
△	11/2005	REVISED		ELG	MFR FCS
△	10/2001	REVISED		ELG	MFR
△	8/2001	AS BUILT		ELG	
P.O.	REV	DATE	DESCRIPTION	DWN	CKD APP
U.S. DEPARTMENT OF ENERGY					
NSA/SANDIA SITE OFFICE ALBUQUERQUE, NEW MEXICO					
SANDIA NATIONAL LABORATORIES					
FCS POINT DESCRIPTION			P.O.	0839422	
			PROJECT NO.		
			DRAWN BY	E. L. CORE	
			CHECKED BY		
			SNL ENGR	C. A. EVANS	
MECHANICAL			DATE	10-12-99	
STANDARD			SIZE	DRAWING NO	
			D+	M16002STD	
			SEQ.		