SPECIFICATIONS

■ The irrigation system controller shall be a microprocessor-based, solid-state unit capable of fully automatic and manual operation. The controller shall have a durable stainless steel cabinet with baked epoxy-coated enamel finish with a key operated lock and shall be suitable for wall mounting either indoors or outdoors. Or the components can be mounted in a heavy duty stainless steel or plastic pedestal, which will have a key operated lock and is designed to be mounted either on a quick pad or concrete pad.

■ The controller shall operate on a 117 VAC at 60Hz +/- 10% input power or 220/240 VAC at 50Hz +/- 10% input power. The transformer shall be rated at 3.2 amp output capacity for operating a maximum of 14 standard 24 VAC solenoids plus a master valve/pump start simultaneously. The controller shall be protected against severe electrical surge at all incoming and outgoing wiring connections.

■ The controller will use valve modules to establish the station count. The valve modules must be available in (A) 16 station w/small terminals (2-18 gauge wires per station), (B) 8 station w/large terminals (2-12 gauge wires per station), (C) 16 station w/large terminals (2-12 gauge wires per station) and (D) 125 address 2-wire decoder. You must be able to insert a maximum of three valve modules in a wall mount unit using any combination of A, B and D modules or a maximum of six in a pedestal unit using any combination of A, B, C, and D modules.

■ As a stand alone, the controller shall have 128 separate programs which can have different start times (max of eight per day), watering days and station run times. Each program must be capable of running 48 events allowing the stations to run in any order sequentially or all at once in parallel. Each station shall be capable of an operating time of 5 seconds to 23 hours 59 minutes 59 seconds in 1 second increments. Each program must be able to run based on its start function regardless of other programs that may be currently running unless the programs are linked allowing for program stacking.

■ The controller shall have a 365 day calendar and program water days can be set for all months, individual months, weekly, odd/even or intervals between 1 and 99 days.

■ The controller shall have up to 4 master valve/pump start circuits, 2 normally open and 2 normally closed. The user must be able to define which of the available standard valve outputs will be used as a master valve / pump start.

■ The controller shall be a Signature Control Systems Constellation model.

■ The controller shall be capable of connecting to and monitoring ET, flow, pressure, soil moisture, rainfall, normally open and closed switches, from sensors mounted on the communication network and shall transmit unsolicited messages to any controller which requires the measured data for program adjustments, reporting, or alarm paging. This scheme shall be independent of any central computer connected to the controller(s) network.

■ The controller shall have an internal non-volatile memory, which will retain the programs and the date/time for a minimum of 10 years without any power.

■ The controller control panel shall have a large 80-character alphanumeric, back-lit liquid crystal display (LCD) to show operation information and diagnostic data as well as display network information if it is operating as a satellite, with 18 large raised buttons with clear descriptive icons for controller input. The user must be able to toggle between English and Spanish for the LCD readout.

■ The controller must be able to be used as a satellite in a network and as a satellite be able to remote link to any other satellite in the network with or without a central computer or internet connection. When the satellite is remote linked to another the user must be able to perform all the programming functions as if standing at that satellite.

■ The controller shall automatically detect communication methods and shall operate as a stand-alone controller or a network satellite. The mode shall be automatic and transparent to the user.

■ The controller shall be as manufactured by Signature Control Systems, Irvine, California.

DIMENSIONS

Metal Wall Mount

■ Width: 14" / Height: 18" / Depth: 4 1/4"

Plastic Pedestal

❋■ Width: 16" / Height: 45" / Depth: 11 5/8"

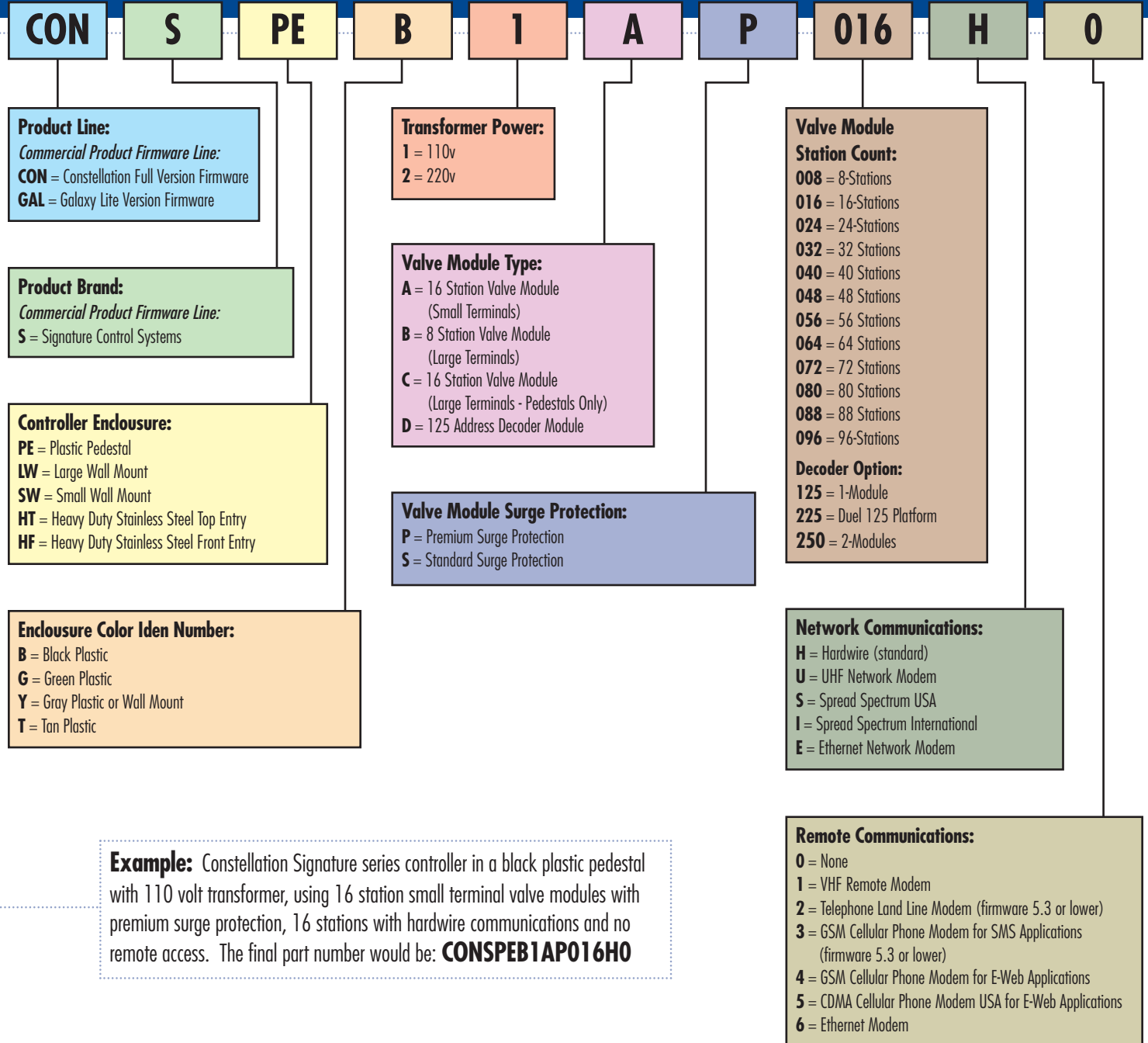*Constellation Wall Mount*

Constellation Plastic Pedestal

Constellation Heavy Duty Stainless Steel Pedestals

Do Anything... from Anywhere.

CONSTELLATION
CENTRAL CONTROL SYSTEM

CONTROLLER PART NUMBER GRID:

CON	S	PE	B	1	A	P	016	H	0

Product Line:
Commercial Product Firmware Line:
CON = Constellation Full Version Firmware
GAL = Galaxy Lite Version Firmware

Product Brand:
Commercial Product Firmware Line:
S = Signature Control Systems

Controller Enclousure:
PE = Plastic Pedestal
LW = Large Wall Mount
SW = Small Wall Mount
HT = Heavy Duty Stainless Steel Top Entry
HF = Heavy Duty Stainless Steel Front Entry

Enclosure Color Iden Number:
B = Black Plastic
G = Green Plastic
Y = Gray Plastic or Wall Mount
T = Tan Plastic

Transformer Power:
1 = 110v
2 = 220v

Valve Module Type:
A = 16 Station Valve Module
(Small Terminals)
B = 8 Station Valve Module
(Large Terminals)
C = 16 Station Valve Module
(Large Terminals - Pedestals Only)
D = 125 Address Decoder Module

Valve Module Surge Protection:
P = Premium Surge Protection
S = Standard Surge Protection

Valve Module Station Count:
008 = 8-Stations
016 = 16-Stations
024 = 24-Stations
032 = 32 Stations
040 = 40 Stations
048 = 48 Stations
056 = 56 Stations
064 = 64 Stations
072 = 72 Stations
080 = 80 Stations
088 = 88 Stations
096 = 96-Stations

Decoder Option:
125 = 1-Module
225 = Duel 125 Platform
250 = 2-Modules

Network Communications:
H = Hardwire (standard)
U = UHF Network Modem
S = Spread Spectrum USA
I = Spread Spectrum International
E = Ethernet Network Modem

Remote Communications:
0 = None
1 = VHF Remote Modem
2 = Telephone Land Line Modem (firmware 5.3 or lower)
3 = GSM Cellular Phone Modem for SMS Applications
(firmware 5.3 or lower)
4 = GSM Cellular Phone Modem for E-Web Applications
5 = CDMA Cellular Phone Modem USA for E-Web Applications
6 = Ethernet Modem

Example: Constellation Signature series controller in a black plastic pedestal with 110 volt transformer, using 16 station small terminal valve modules with premium surge protection, 16 stations with hardwire communications and no remote access. The final part number would be: **CONSPEB1AP016H0**

Do Anything...
from Anywhere.

CONSTELLATION
CENTRAL CONTROL SYSTEM