BACnet® Workstation Software



Powerful creative freedom

Recognized as the ultimate all-in-one BACnet Advanced Workstation (B-AWS), RC-Studio® 2.0 from Reliable Controls® provides outstanding functionality, value, and ease of programming.











TECH SPECS

Recommended Workstation Requirements

- · Intel P4, 2.4 GHz PC
- 3 GB hard disk space
- CD-ROM drive
- 1 GB RAM
- SVGA monitor (greater than 1024 x 768 resolution)
- EIA-232 com port (for direct communication)
- Network Interface Card (NIC) for Ethernet communications
- Modern 32- or 64-bit Microsoft operating system
 (Windows XP, 7, 8 or Windows Server 2003, 2008 R2, 2012)

FEATURES

Freedom to Program

- Automatic BACnet discovery
- · Drag and drop BACnet objects
- · Full priority array control
- Intuitive database worksheets
- Cut and paste program code

Full-Featured Programmability

- Inputs, Outputs, Variables
- Schedule, Calendar
- · Runtime Logs, Trend Logs
- Control-BASIC Editor for program coding
- System Group Editor for annotation and linking professional-looking graphics
- Alarm programming with priorities

Simulator

- Program an entire system offline using the simulator
- Programs can be written completely offline without the need of controller hardware

Graphic Support

- Supports BMP, GIF, TIFF, JPG, EMF, PNG, SWF, and DIB
- Flash animation graphics
- Supports VGA/SVGA/ ULTRAVGA resolutions
 - · Hyperlink support to URLs

Network Management

- Alarm monitoring and annunciation to screen, email, and printer
- Wildcard searching and report generating
- · Automated network backup

Certification

BTL Listed (B-AWS)*

*Certification applies to Software Version 2.0 Update 1.76 or greater

ORDERING

RC-ST2-1

· Single user license

RC-ST2-5

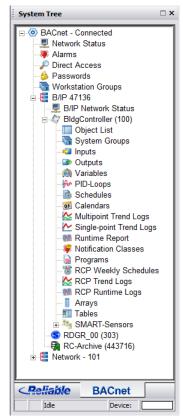
Five user license

RC-ST2-A

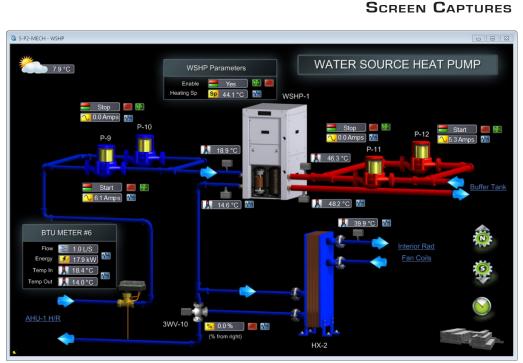
· Additional user license

RC-ST2-M

 RC-Studio 2.0 Software Manual



System Tree



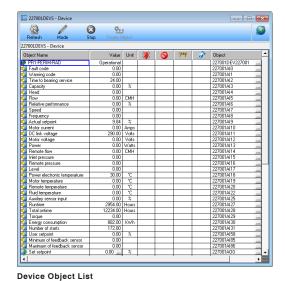
System Group graphic drawn using GrafxSet 2.0 Image Library



SCREEN CAPTURES



Trend Log



Device Object List

```
7000PRGZ7 S-P2-MECH - S-BOILER-BOOST-PRG*

T 10 REM *** Backup system to inject heat when WSHP and ASHP cannot , RLS , Oct 10 , 2012

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T 20 REM *** Last modified Jan 18 , 2013 , RLS

T 30 REM *** When the buffer tank needs heat , the priority is WSHP , then ASHP , then Boiler , in that order

T 40 REM *** There are 3 valves involved with heat injection

T 50 REM *** No heat injection from boilers:

T 60 REM *** Heat injection to TV HX-1 , but not to buffer tank: 2WV2 = 0% 3WV4 = 0% 3WV6 = 100%

T 70 REM *** Heat injection to TV HX-1 and also heat buffer tank: 2WV2 = 100% 3WV4 = 0% 3WV6 = 100%

T 80 REM *** Heat injection must be disabled during the cooling and shoulder seasons

T 81 A = SWITCH(A, WITHR-OAT, 5, 3)

T 90 IF A AND ( GOOD)S-HVAC-MODE-NORTH = 2 OR {6000}S-HVAC-MODE-SOUTH = 2 ) THEN GOTO 100 ELSE GOTO 160

T 100 REM *** The following code will automatically inject heat if the buffer tank temperature falls below setpoint

T 110 (7000)S-BOILER-INJ-SP = S-BUILER-TV-INJ-PID

T 120 S-BUFF-3WV2-MOD = S-BOILER-TV-INJ-PID

T 140 S-BUFF-3WV2-MOD = 100

T 150 GOTO 190

T 160 REM *** Building not in heating mode

T 170 S-BUFF-3WV4-MOD = 100

T 190 S-BUFF-3WV4-MOD = 100

T 190 S-BUFF-3WV4-MOD = 0

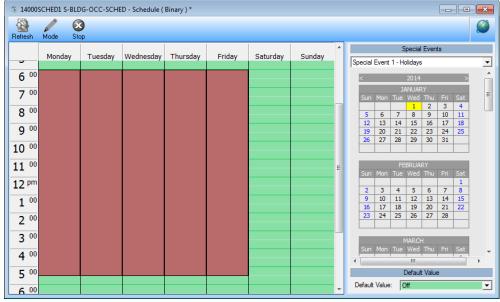
T 190 S-BUFF-3WV4-MOD = 100

T 190 S-BUFF-3WV4-MOD = 100

T 190 S-BUFF-3WV4-MOD = 100

T 190 S-BUFF-3WV4-MOD = 100
```

Program Code



Schedule