

Submittal Data Sheet

CLW01

LonWorks Adapter

| | | | |
|-------------------|--|--------------|---------------|
| Job Name: | | Location: | |
| Purchaser: | | Order No: | |
| Engineer: | | | |
| Submitted To: | | Approval: | Construction: |
| Submitted By: | | Date: | |
| Unit Designation: | | Schedule No: | Model No: |

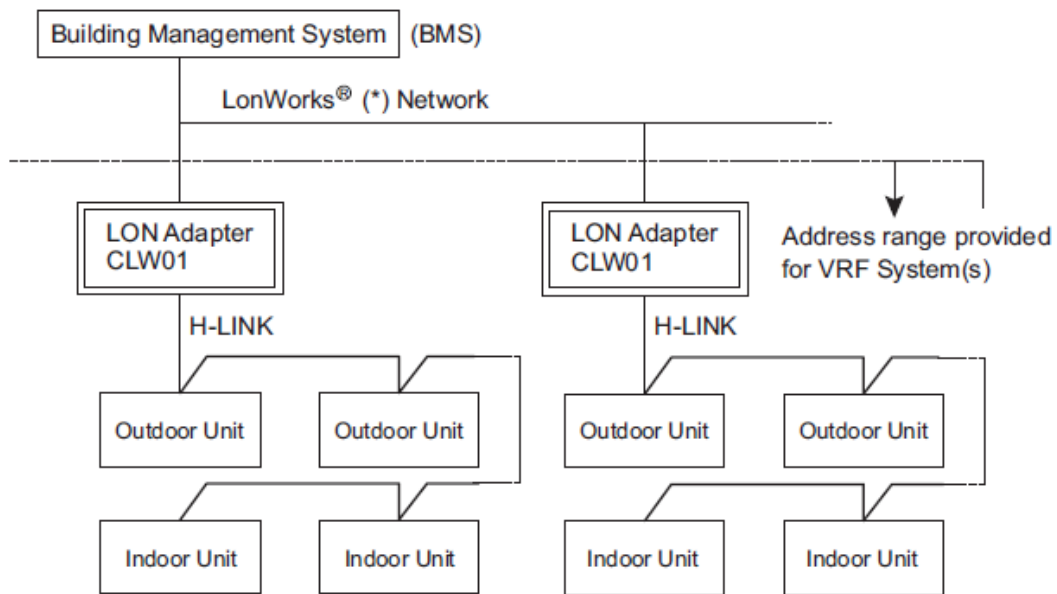
FEATURES AND BENEFITS

- Connect up to 160 Indoor Units for operation and status monitoring with total combination of 200 Indoor and Outdoor Units
- Connect up to 64 Remote Controller Groups and 64 Refrigeration Systems
- Integrate with third party building automation systems supporting the LonWorks protocol
- Combine with up to 8 Large (CCL01) and Mini (CCM01) Central Controllers simultaneously to the same H-LINK II segment



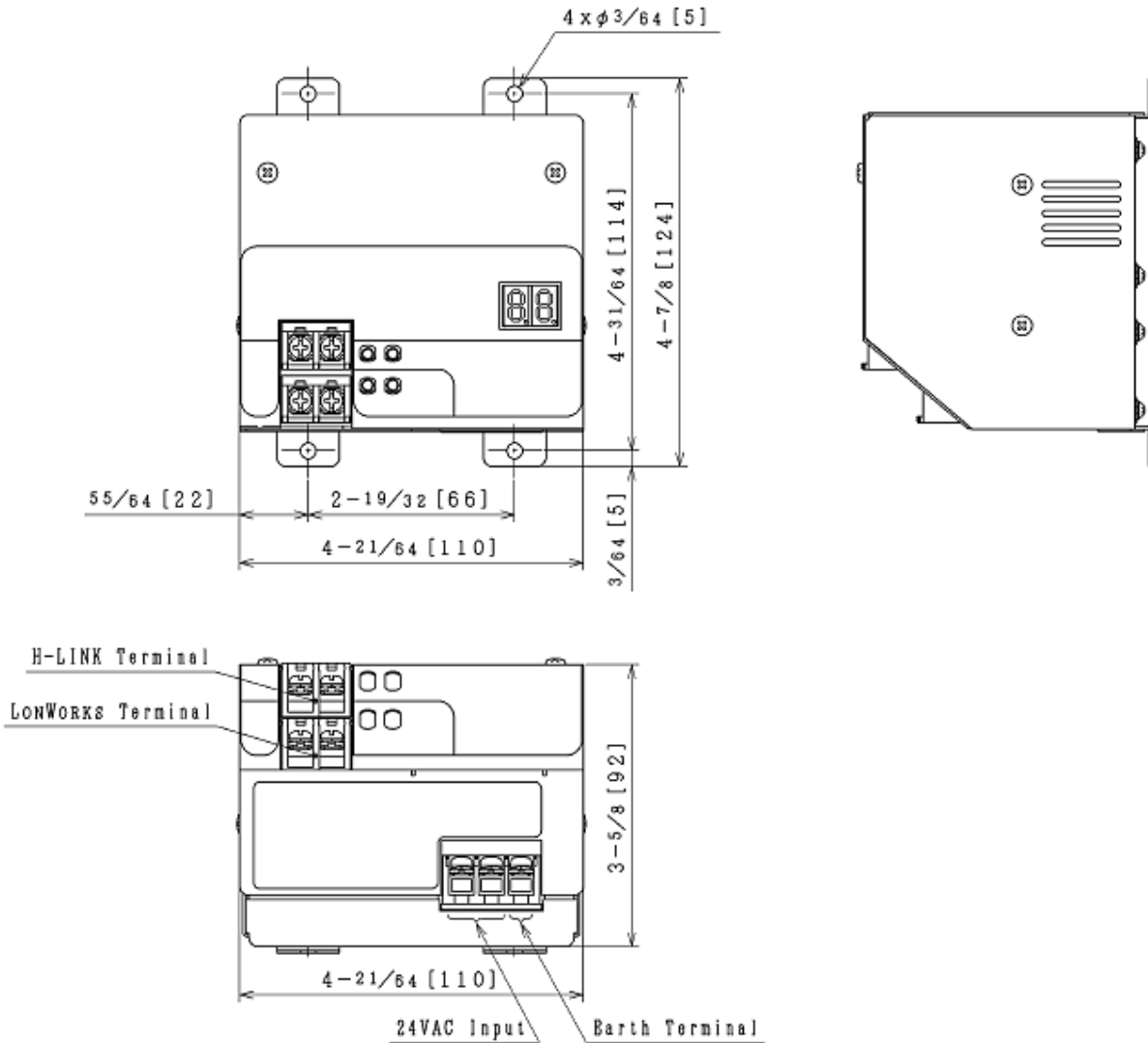
| LonWorks Adapter Specifications | |
|------------------------------------|---|
| Power Supply | AC24V ± 10% (60Hz) |
| Power Consumption | 6W (Max.) |
| Operating Conditions | Ambient Temperature: 32 ~ 113°F (0 ~ 45°C) Ambient Humidity: 25 ~ 80%RH (No Condensation) |
| Transceiver | FT5000 Smart Transceiver |
| Net Weight | 1.5lb (670g) |
| Installation Considerations | Attach to wall (vertical) (4-M4 screws (not included in the package) or installed on DIN rail) |

Sample of System Configuration



CLW01

Outer Dimensions



| | Function | Description |
|---------------------------|--|--|
| Control Functions | Run / Stop | Sets the operation of the Indoor Unit. (Run / Stop) |
| | Operation Mode ⁽¹⁾ | Sets the operational mode of the Indoor Unit. (Cool / Heat / Fan / Auto / Dry) |
| | Indoor Temperature Setpoint ⁽¹⁾ | Sets the room temperature setpoint of the Indoor Unit. (63°F - 86°F) |
| | Fan Speed Level | Sets the fan speed output setting of the Indoor Unit. (Low, Med, High) |
| | Prohibiting Remote Control Operation | Enables or disables the remote controller's ability to control the Indoor Unit's run / stop / fan / mode / room temperature setpoint. |
| | Filter Sign Reset | Checks if the filter is clogged and resets the status as required. |
| | Outdoor Unit Energy Saving | Limits the capacity of the Outdoor Unit for either noise reduction or demand control purposes |
| | Temperature Mode Switch/Outdoor Unit Control Mode | Enables the Temperature and Mode of all Indoor Units in a System to be fixed and unchangeable by the local zone controller |
| Monitoring Points | Run/Stop | Monitors and reports the Run / Stop operational status of the Indoor Unit. |
| | Operation Mode | Monitors and reports the operational mode of the Indoor Unit. (Cool / Heat / Fan / Auto / Dry) |
| | Indoor Temperature Setpoint | Monitors and reports the current room temperature setpoint of the Indoor Unit. (62°F - 86°F) |
| | Fan Speed Level | Monitors and reports the fan speed output setting of the Indoor Unit. (Low, Med, High) |
| | Thermo Status | Monitors and reports the call for Heating or Cooling |
| | Prohibiting Remote Control Operation | Monitors and reports the status of the remote controller lockout function for run / stop / fan / mode / room temperature setpoint. |
| | Filter Sign | Checks if the filter is clogged and monitors whether or not it can still be used. |
| | Indoor Air Intake Temperature | Monitors and reports the current indoor air intake temperature. |
| | Indoor Air Outlet Temperature | Monitors and reports the current indoor air discharge temperature. |
| | Outdoor Temperature | Monitors and reports the current ambient temperature |
| Alarm Code | Displays a specified malfunction code of the Outdoor Unit in the system which has experienced a malfunction. | |
| Application Notes: | | 1. When the operation mode is set to any mode other than "HEAT", the valid temperature range for Indoor Temperature Setting Value is 66°F - 86°F. When switching operation mode from "HEAT" to "COOL" while the Indoor Temperature Setting value is <66°F, the Remote Controller will indicate a value <66°F, but the Indoor Unit is operating with a 66°F setpoint. |

| | | | | | |
|---------------------------|--------------|----------|----------|----------|----------|
| Model Number | CLW01 | | | | |
| Model Type | LON® Adapter | | | | |
| Connection Specification | Standard | Option A | Option B | Option C | Option D |
| Number of Connectable RCG | 64 | 64 | 32 | 16 | 16 |

RCG: Remote Controller Group

Control Items

| Item | Network Variable | Description | Connection Specification (O = Available) | | | | |
|---|---|---|--|----------|----------|----------|----------|
| | | | Standard | Option A | Option B | Option C | Option D |
| Run/Stop | nviOnOff_n | Run/Stop command for this RCG | O | O | O | O | O |
| Simultaneous Run/Stop | nviAllOnOff | Simultaneous Run/Stop command with node | O | O | O | O | O |
| Operation Mode Setting | nviMode_n | Operation Mode command for this RCG | O | O | O | O | O |
| Temperature Setting | nviSetPt_n | Temperature Setting command for this RCG | O | O | O | O | O |
| Fan Speed Setting | nviFansSpeed_n | Fan Speed Level setting command for this RCG | -- | O | O | O | -- |
| Louver Setting | nviLouver_n | Louver Swing Direction setting command for this RCG | -- | -- | O | O | -- |
| RC Permitted/Prohibited (All Items) | nviProtect_n | RC operation permitted/prohibited (all items) command for this RCG | -- | O | O | O | -- |
| RC Permitted/Prohibited (Run/Stop, Operation Mode Setting, Temperature Setting) | nviOnOffPrctct_n, nviModePrctct_n, nviSetPtPrctct_n | RC operation permitted/prohibited (Run/Stop, Operation Mode Setting, Temperature Setting) command for this RCG | -- | -- | -- | O | -- |
| Filter Sign Reset | nviRstFS_n | Filter Sign reset for this RCG | -- | -- | -- | O | -- |
| Outdoor Unit Capacity Control | nviDemand_nn | Outdoor unit Capacity Control for this Outdoor unit | -- | -- | -- | O | -- |
| Outdoor Unit Operating Sound Reduction Control | nviLowNoise_mn | Operating Sound Reduction Control for this Outdoor unit | -- | -- | -- | O | -- |
| Temperature Mode Switch | nviTempMode | Switch notification value of nvInletTemp_n | -- | O | O | O | -- |
| Outdoor Unit Control Mode | nviOdUnitCtrl | Transmit command (Outdoor unit Capacity Control and Outdoor unit Operating Sound Reduction Control) to outdoor unit periodically. | -- | -- | -- | O | -- |
| Setback Temperature Compensation (r3) | nviSbSet_n | Optional Function Setting (r3) command for this RCG | -- | -- | -- | -- | O |
| Dual Setpoint Setting (r1) & Cooling/Heating Changeover Temperature (r2) | nviDtSet_n | Optional Function Setting (r1 & r2) command for this RCG | -- | -- | -- | -- | O |
| AUTO COOL Temperature | nviDtcSetPt_n | AUTO COOL Temperature Setting command for this RCG | -- | -- | -- | -- | O |
| AUTO HEAT Temperature | nviDthSetPt_n | AUTO HEAT Temperature Setting command for this RCG | -- | -- | -- | -- | O |
| Auxiliary Heater Setting (q1) | nviAhSet_n | Optional Function Setting (q1) command for this RCG | -- | -- | -- | -- | O |
| Auxiliary Heater ON Compensation (q2) | nviAhOnTmp_n | Optional Function Setting (q2) command for this RCG | -- | -- | -- | -- | O |
| Auxiliary Heater OFF Compensation (q3) | nviAhOffTmp_n | Optional Function Setting (q3) command for this RCG | -- | -- | -- | -- | O |
| Ambient Temperature Restriction Setpoint (q4) | nviAhOpStpTmp_n | Optional Function Setting (q4) command for this RCG | -- | -- | -- | -- | O |
| Ambient Temperature Restriction Setpoint Compensation (q5) | nviAhOpResTmp_n | Optional Function Setting (q5) command for this RCG | -- | -- | -- | -- | O |

Monitoring Items

| Item | Network Variable | Description | Connection Specification (O = Available) | | | | |
|---|---|---|--|----------|----------|----------|----------|
| | | | Standard | Option A | Option B | Option C | Option D |
| Run/Stop Status & Malfunction | nvoOnOff_n | Run/Stop and collective malfunction status for this RCG | O | O | O | O | O |
| Operation Mode Setting | nvoMode_n | Operation Mode status for this RCG | O | -- | O | O | O |
| Temperature Setting | nvoSetPt_n | Indoor Temperature Setting status for this RCG | O | -- | O | O | O |
| Fan Speed Setting | nvoFanspeed_n | Fan Speed Level setting status for this RCG | -- | -- | O | O | -- |
| Louver Setting | nvoLouver_n | Louver Swing Direction setting status for this RCG | -- | -- | O | O | -- |
| Thermo Status | nvoThermo_n | Thermo-Off/On status of each Indoor unit which belongs to this RCG | O | -- | -- | O | O |
| Alarm Code | nvoAlarmDesr_n | Alarm Code indication for this RCG | -- | -- | O | O | -- |
| Indoor Unit Inlet Temperature/ RC Thermo Temperature | nvoInletTemp_n | Indoor unit Inlet Temperature for this RCG * depending on nviTempMode setting, notified value is switched to Indoor unit Inlet Temperature or RC Thermo Temperature. | -- | O | O | O | -- |
| Indoor Unit Outlet Temperature | nvoOutletTemp_n | Indoor unit Outlet Temperature for this RCG | -- | -- | O | O | -- |
| Outdoor Temperature | nvoAmbientTemp | Ambient Temperature | -- | -- | O | O | -- |
| RC Permitted/Prohibited (All Items) | nvoProtect_n | RC Permitted/Prohibited (All items) setting status for this RC | -- | -- | -- | O | -- |
| RC Permitted/Prohibited (Run/Stop, Operation Mode Setting, Temperature Setting) | nvoOnOffPrct_n, nvoModePrct_n, nvoSetPtPrct_n | RC Permitted/Prohibited (Run/Stop, Operation Mode Setting, Temperature Setting) setting status for this RC | -- | -- | -- | O | -- |
| Filter Sign | nvoFS_n | Filter Sign indication for this RCG | -- | -- | -- | O | -- |
| Setback Temperature Compensation (r3) | nvoSbSet_n | Optional Function Setting (r3) status for this RCG | -- | -- | -- | -- | O |
| Setback Operation Status | nvoSbOpStat_n | Setback Operation status for this RCG | -- | -- | -- | -- | O |
| Dual Setpoint Setting (r1) & Cooling/Heating Changeover Temperature (r2) | nvoDtSet_n | Optional Function Setting (r1 & r2) status for this RCG | -- | -- | -- | -- | O |
| AUTO COOL Temperature | nvoDtCSetPt_n | AUTO COOL Temperature Setting status for this RCG | -- | -- | -- | -- | O |
| AUTO HEAT Temperature | nvoDtHSetPt_n | AUTO HEAT Temperature Setting status for this RCG | -- | -- | -- | -- | O |
| Auxiliary Heater Setting (q1) | nvoAhSet_n | Optional Function Setting (q1) status for this RCG | -- | -- | -- | -- | O |
| Auxiliary Heater ON Compensation (q2) | nvoAhOnTmp_n | Optional Function Setting (q2) status for this RCG | -- | -- | -- | -- | O |
| Auxiliary Heater OFF Compensation (q3) | nvoAhOffTmp_n | Optional Function Setting (q3) status for this RCG | -- | -- | -- | -- | O |
| Auxiliary Heater Operation Status | nvoAhOpStat_n | Auxiliary Heater Operation Status for this RCG | -- | -- | -- | -- | O |
| Ambient Temperature Restriction Setpoint (q4) | nvoAhOpSpTmp_n | Optional Function Setting (q4) status for this RCG | -- | -- | -- | -- | O |
| Ambient Temperature Restriction Setpoint Compensation (q5) | nvoAhOpResTmp_n | Optional Function Setting (q5) status for this RCG | -- | -- | -- | -- | O |