



Submittal Data Sheet

intelligent Touch Manager DCM601A71

Project Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Approval: _____

Date: _____

Construction: _____

Unit #: _____

Drawing #: _____

For use with the following VRV Models: FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXMQ_MF, FXNQ, FXTQ, FXUQ, FXZQ, VAM

For use with the following Daikin SkyAir Models: FAQ, FBQ, FCQ, FHQ, FTQ

Capacity:

Model No.	intelligent Touch Manager DCM601A71	iTM Plus Adapter (option) DCM601A72
Maximum Indoor Unit Groups:	64	64
Max Indoor Units:	128	128
Max Outdoor Units:	10	10
Max BACnet Servers:	50	-
*Systems Total:	512 Indoor Unit Groups (1024 Indoor Units)	



Operating Details:

Power Supply (Externally supplied):	24 VAC, 60 Hz	24 VAC, 60 Hz
Power Consumption:	23 Watts	23 Watts
Operating Temp Range:	32-104°F	14 - 122°F
Operating Humidity Range:	85% or less (w/o condensation)	85% or less (w/o condensation)
Dimensions (WxHxD):	11.42 x 9.57 x 1.97 in.	6.30 x 5.87 x 2.41 in.
Weight (Mass):	5.3 lbs. (2.4 kg)	1.1 lbs. (0.5 kg)
Certifications:	FCC Part 15 Class B	

Communication:

DIII-NET Systems:	1	1
RJ-45 (Ethernet) 100Base-TX or 10Base-T	2	N/A
USB Port USB2.0 (2GB to 32GB)	1	N/A
RS485 (19 - 22 AWG)	1	1

Input Terminals:

Digital Input forced shutdown of all indoor unit systems	1	N/A
Digital Input and/or Pulse Input Terminals:	3 x 10 mA @ 16 VDC/ 3 x 1 pulse at 1 or 10 kWh at 100 ms interval	4 x 10 mA @ 16 VDC/ 4 x 1 pulse at 1 or 10 kWh at 100 ms interval

Configuration and engineering for each project is necessary

The Power Proportional Distribution (PPD) feature supplies the user with a reasonably calculated apportionment of the total power consumption by the Daikin air-conditioning system to individual units on the system. Because input to the PPD includes measured pulses in the refrigerant system and because the air-conditioning system includes a number of variables, to include operating temperatures and pressures, piping lengths, heat exchange rates and others, no meter-type apportionment of individual user's consumption can be made. However, the PPD feature provides an apportionment methodology that uses highly advanced technology as applied to the many variables in the air-conditioning system.

*Note: See Management Size on page two for System Total explanation

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Software Options:

- Web/Email Software standard
- Power Proportional Distribution (PPD) Software (DCM002A71)
- BACnet IP Client Software (DCM009A51)

Hardware Options:

- iTM Plus Adapter(DCM601A72) for expanding indoor unit groups up to 512 groups (1024 indoor units)
- WAGO I/O unit for controlling/ monitoring of external equipment via Di, Do, Ai, Ao and Pi
- Digital Input (DEC101A51-US2) for monitoring of external equipment
- Digital Input/Output (DEC102A51-US2) for controlling / monitoring of external equipment



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Features / Benefits:

1. **Management size** - up to 512 indoor unit groups (1024 indoor units)
 - a. The iTM can manage one (1) DIII-Net system which can have up to 64 indoor unit groups (128 indoor units).
 - b. The iTM can manage up to eight (8) DIII-Net systems with the addition of the iTM Plus Adapter which can manage one (1) DIII-Net system each. This means up to seven (7) iTM adapters can be daisy chained to the iTM
2. **Control / Monitoring**
 - a. Independent Cool and Heat setpoints
 - i. Setpoint tracking for full range of setpoint differentials
 - b. Independent Cool and Heat Setback setpoints (unoccupied)
 - i. Adjustable timed override
 - c. Room temperature displayed in 0.1°F
 - d. 7, 5+2, 5+1+1, 1 (Everyday) weekly patterns
 - i. Optimum Start
 - e. Auto-changeover: Fixed, Individual, Average, and Vote
 - i. Weighted demand (0-3) configurable for Average and Vote methods
 - ii. Adjustable (1-4°F) Primary and Secondary changeover bands
3. **Web Accessibility**
 - a. Web and Alert Email function standard with iTM
 - b. All iTM configuration/setup can be done through Web Option or touch screen
4. **Visual Navigation Screen**
 - a. Floor plan layout view is available
 - b. Graphical User Interface (GUI) for BACnet IP Client management points
5. **Easy installation**
 - a. Wall mount and flush mount installation
 - b. Automatic indoor unit registration and indoor unit model detection
6. **Easy Engineering**
 - a. iTM can be configured off site via Pre-setting Tool
 - b. All data can be uploaded and downloaded by USB flash drive
7. **Building facilities management**
 - a. The iTM is equipped with 3 digital/pulse inputs and the iTM Plus Adapter comes equipped with 4 digital/pulse inputs
 - b. Building ancillary equipment can be connected by using the WAGO I/O system (optional)
 - i. I/O configuration for Digital Input, Digital Output, Analog Input, Analog Output and Pulse Input
 - c. BACnet IP Client management points
 - i. AI, AO, AV, BI, BO, BV, MI, MO and MV
 - d. Tenant billing
8. **BACnet Client (Optional)**
 - a. Monitor and control equipment and sensors connected to a BACnet server via BACnet IP
 - i. Up to 50 BACnet IP servers can be connected
9. **History**
 - a. All errors, operations, automatic controls and status changes are stored in history (up to 500,000 items)
10. **D-Net compatible (Service option)**
 - a. Remote monitoring of VRV equipment status and reporting

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Specifications

1. Wiring

Specifications of Communication Cabling	
DIII-Net	
Type	2-conductor, stranded, non-shielded copper cable / PVC of vinyl jacket
Size	AWG 18-2
Total Length	Maximum wiring distance between units 3,280 ft. Total wire length 6,560 ft.
iTM Plus Adapter	
Type	2-conductor, stranded, non-shielded copper cable / PVC of vinyl jacket
Size	AWG 18-2
RS485 Length	Maximum distance between iTM and furthest iTM Plus Adapter 150 ft.
Total Length	Maximum wiring distance between units 3,280 ft. Total wire length 6,560 ft.
WAGO	
Type	2-conductor, stranded, non-shielded copper cable / PVC of vinyl jacket (CPEV or FCPEV)
Size	2 Wire AWG 24 - 18 stranded
Total Length	Maximum wiring distance between iTM and Bus Coupler 1640 ft.

2. BACnet Client Management Points

Object Type #	Object Name	Description
0	Analog Input	Analog input value such as a temperature and measurement value
1	Analog Output	Analog output value such as a setting value (For example, can be used as the analog input value of a setting value)
2	Analog Value	Analog input value such as a temperature and measurement value or analog output value such as a setting value
3	Binary Input	Digital input value such as an On/Off status and error status
4	Binary Output	Digital output value such as an On/Off operation (For example, can be used as the digital input value of an On/Off operation)
5	Binary Value	Digital input value such as an On/Off status and error status or digital output value such as a On/Off operation
13	Multi-state Input	Digital input value such as an operation mode
14	Multi-state Output	Digital output value such as an operation mode (For example, can be used as the digital input value of an operation mode)
19	Multi-state Value	Digital input value such as an operation mode or digital output value such as an operation mode

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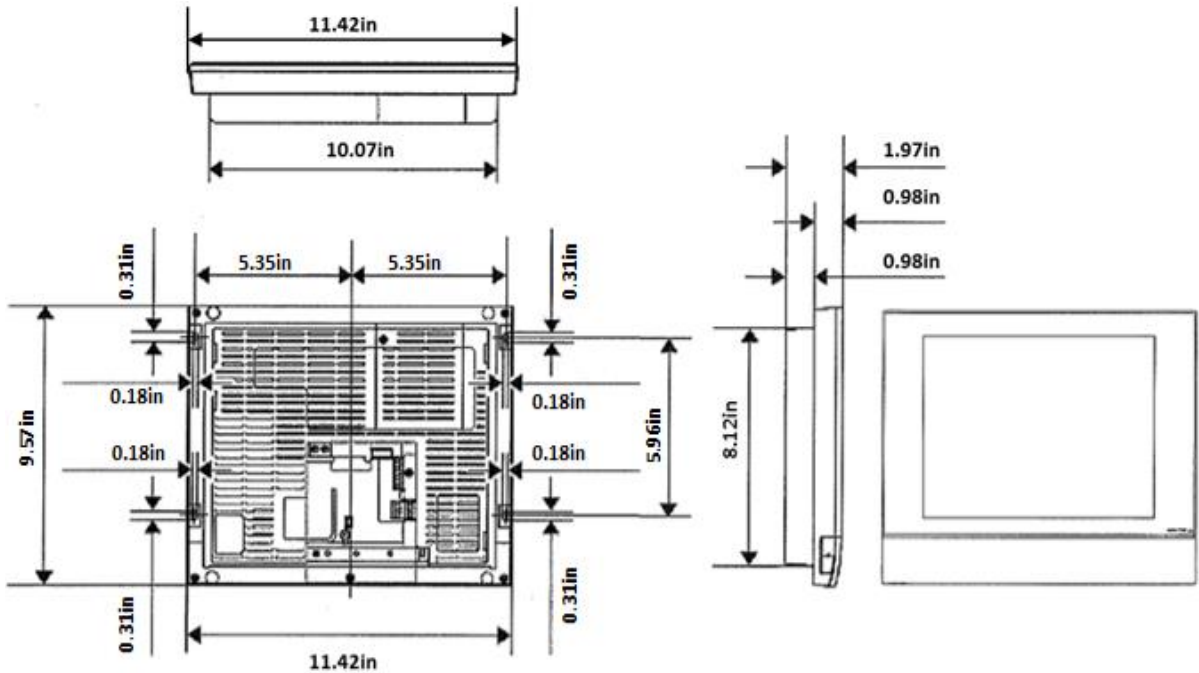
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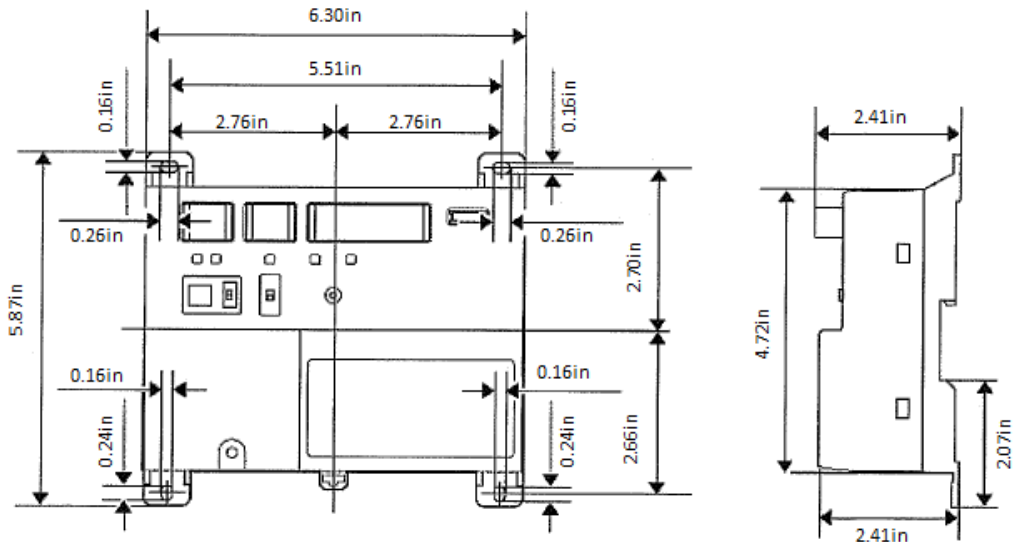
Approval: _____
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3. Dimensions

**Intelligent Touch Manager (iTM)
DCM601A71**



**iTM DIII-NET Plus Adapter
DCM601A72**



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