Technical Review

Commissioning Overview

Use with Viessmann Vitotronic NR2 controls with Automated Logic® based building automation systems.

KWE Technologies Group

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IMPORTANT

Note:
This guideline provides necessary information to assist in the setup of Automated Logic software to access Viessmann LON system. This information is purely a supplement to the information provided by Automated Logic and Viessmann. It should only be used by those familiar with the product and processes required for commissioning of these systems.

Automated Logic Setup Guidelines - Viessmann Commercial Controls Rev A

SLTA Domain Table Setup:

Domain table length : 1
Domain ID : 07-00-00-00-00-00
Subnet ID : 1
Node ID : 50

Viessmann controllers have next Node IDs:

- 1 to 4 are reserved for the Boilers (Vitotronic 100GC1/300GW2)
- 5 is reserved for the Cascade controller (Vitotronic 300K-MW1 – old name Vitotronic 333)
- 10 and up are reserved for zone controllers (Vitotronic 200-H - previous name Vitotronic 50)

Notes:

- Please note that “nvoBoCSupplyT” and “nvoBoCBlrState” has NV numbers depended on the NodeIDs.
- Please make sure that all timers for the DHW and Zone heating are in “00:00-24:00” range.
- If is there no mixing valve, common supply temperature may be controlled using CFDM variables on the cascade.
- To control each individual mixing valve please use appropriated HC1 to HC3 variables on the cascade/ zone controls.
- More information on specific variables and how to control is available in the Viessmann LON Handbook.
- For Alarm variable use element #24 to read alarm code.
- Please contact us for more system specific information.

Variable List

Variable Name	Node ID	NV Number	SNVT	Polled	Input
nvoBoCSupplyT	1	22	105	X	X
nvoBoCSupplyT	2	42	105	X	X
nvoBoCSupplyT	3	62	105	X	X
nvoBoCSupplyT	4	82	105	X	X
nvoBoCEffSetpt	1-4	16341	105	X	X
nvoBoCBlrState	1	21	95	X	X
nvoBoCBlrState	2	41	95	X	X
nvoBoCBlrState	3	61	95	X	X
nvoBoCBlrState	4	81	95	X	X
nvoNodeAlarm	1-4,5,10 and up	11	88	X	X
nvoNodeRlyState	1-4,5,10 and up	16375	83	X	X
nvoNodeOATemp	1 or 5	2	105	X	X
nvoCFDMSupplyT	1 or 5	16366	105	X	X
nvoCFDMEffSetpt	1 or 5	16367	105	X	X
nviCFDMApplicMd	1 or 5	16371	108		
nviCFDMSetpoint	1 or 5	16370	105		
nviDHWCApplicMd	1,5 ,10 and up	16363	108		
nviDHWCSetpt	1,5 ,10 and up	16364	105		
nvoDHWCActTemp	1,5 ,10 and up	16362	105	X	X
nvoDHWCEffSetpt	1,5 ,10 and up	16361	105	X	X
nviHCC1ApplicMd	10 and up	16360	108		
nviHCC1FlowTSet	10 and up	16358	105		
nviHCC1SpaceSet	10 and up	16359	105		
nviHCC2ApplicMd	5 ,10 and up	16355	108		
nviHCC2FlowTSet	5 ,10 and up	16353	105		
nviHCC2SpaceSet	5 ,10 and up	16354	105		
nviHCC3ApplicMd	5 ,10 and up	16350	108		
nviHCC3FlowTSet	5 ,10 and up	16348	105		
nviHCC3SpaceSet	5 ,10 and up	16349	105		
nvoHCC1EffRmSet	10 and up	16356	105	X	X
nvoHCC2EffRmSet	5 ,10 and up	16351	105	X	X
nvoHCC3EffRmSet	5 ,10 and up	16346	105	X	X

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