

## LON-Works voor Chiller - Clim 50

Protocol: Lon works  
 versie: FTT-10A 78 kbs (TP/FT-10).

baudrate: 4800 (aanbevolen)  
           min. 1200  
           max. 19200

Identificatie: max. 200 3931

Instelmogelijkheid:

3900	3931	Identification number	1	1 - 200	nr.
BMS	3932	Type	list	list	list
	3933	Baud	list	list	list
	3934	Watchdog	0	0-1000	nr.
	3935	BMS Stby	off	on/off	on/off

Levering: Lon-kaart: De LON-kaart wordt zonder programma geleverd.  
 Er wordt een application identification number getoond: 90009406000A0400

Software:

- NXE-file Application Image file.  
Deze dient u in de LON kaart te programmeren.
- XIF-file External Interface file.  
Deze dient u in de remote interface te programmeren.
- RPT-file Report file.
- TXT-file Ten behoeve van oudere programma's, verificatie file.  
Cross-reference list, inclusief uitleg.  
Reference list; LON-kaart, PCO1 regelaar, remote interface)

- Programmeren:
1. De NXE-file dient in iedere LON-kaart geladen te worden.
  2. De XIF-file dient in de remote interface geladen te worden.
  3. De geselecteerde bindings kunnen geprogrammeerd worden.

# LonWorks

# Climatic-50 Chiller Lennox

Network variables cross-reference

Type	Index	Name NV	Type NV	Direction	Index
ANL	1	I_Sp_WCool_1_BMS	105	input	1
ANL	1	O_Sp_WCool_1_BMS	105	output	1
ANL	2	I_Sp_WHeat_1_BMS	105	input	2
ANL	2	O_Sp_WHeat_1_BMS	105	output	2
ANL	3	I_Sp_WCool_1_Uno	105	input	3
ANL	3	O_Sp_WCool_1_Uno	105	output	3
ANL	4	I_Sp_WHeat_1_Uno	105	input	4
ANL	4	O_Sp_WHeat_1_Uno	105	output	4
ANL	17	O_la_TEEG	105	output	17
ANL	18	O_T_Outside	105	output	18
ANL	19	O_la_TSEG	105	output	19
ANL	20	O_la_P_HP_1	105	output	20
ANL	21	O_la_P_BP_1	105	output	21
ANL	22	O_la_P_HP_2	105	output	22
ANL	23	O_la_P_BP_2	105	output	23
ANL	24	O_la_P_HP_3	105	output	24
ANL	25	O_la_P_BP_3	105	output	25
ANL	26	O_la_P_HP_4	105	output	26
ANL	27	O_la_P_BP_4	105	output	27
Type	Index	Name NV	Type NV	Direction	Index
INT	1	I_Sp_BMS_Dog	8	input	208
INT	1	O_Sp_BMS_Dog	8	output	208
INT	2	I_Sp_RunUnit_BMS	8	input	209
INT	2	O_Sp_RunUnit_BMS	8	output	209
INT	3	I_Sp_ChOver_BMS	8	input	210
INT	3	O_Sp_ChOver_BMS	8	output	210
INT	4	I_Sp_Rotat_BMS	8	input	211
INT	4	O_Sp_Rotat_BMS	8	output	211
INT	17	O_Error_Codes	8	output	224
INT	18	O_R_FCoil_PWM_1	81	output	225
INT	19	O_R_FCoil_PWM_2	81	output	226
INT	20	O_R_FCoil_PWM_3	81	output	227
INT	21	O_R_FCoil_PWM_4	81	output	228

	WA DS50	LC DS50
[Occupation][Water SP] Required maximum water temperature in °C. Cooling set point	3321	3311
[Occupation][Water SP] Required minimum water temperature in °C. Heating set point	3331	
[Inoccupation][Water SP] Required maximum water temperature in °C. Cooling set point	3321	3311
[Inoccupation][Water SP] Required minimum water temperature in °C. Heating set point	3331	
[Temperature] Inlet, Water	2112	2112
[Temperature] Outdoor, Air	2111	2111
[Temperature] Outlet, Water	2113	2113
[Pressure] High, Circuit 1 (Bar)	2125	2125
[Pressure] Low, Circuit 1 (Bar)	2126	2126
[Pressure] High, Circuit 2 (Bar)	2135	2135
[Pressure] Low, Circuit 2 (Bar)	2136	2136
[Pressure] High, Circuit 3 (Bar)		2145
[Pressure] Low, Circuit 3 (Bar)		2146
[Pressure] High, Circuit 4 (Bar)		2155
[Pressure] Low, Circuit 4 (Bar)		2156
	DS50	DS50
[ BMS ] Activation of the control by a computer or an automat - mode BMS is activated if this value is different from zero, This value is decreased every second	3934	3934
[Unit] without pump: 0=Started; 1=Stoped [Unit] with pump: 1=Stoped2:P1 Only; 3=P2 Only; 4=P1-N P2-S; 5=P2-N P1-S; 6=P1/P2 by clock	3112	3112
[Unit] Change-over: 0=Cool. Only; 1=Heat. Only; 2=Auto. Pump; 3=Auto. No Pump	3311	
[Unit] Activation of the circuits: (WA) 0=C1 Only; 1=C2 Only; 2=C1/C2 by clock (LC) bit.0=C1; bit.1=C2; bit.2=C3; bit.3=C4	3411	3411
[Alarm] Code Error	1000	1000
[% of opening] Fan, Modulation, Circuit 1	2615	2619
[% of opening] Fan, Modulation, Circuit 2	2655	2629
[% of opening] Fan, Modulation, Circuit 3		2639
[% of opening] Fan, Modulation, Circuit 4		2649

Type	Index	Name NV	Type NV	Direction	Index
DGT	1	I_Sp_On_Unit	95	input	415
DGT	1	O_Sp_On_Unit	95	output	415
DGT	2	I_Sp_Reset	95	input	416
DGT	2	O_Sp_Reset	95	output	416
DGT	3	I_Sp_Unoc	95	input	417
DGT	3	O_Sp_Unoc	95	output	417
DGT	17	O_Od_Alarm	95	output	431
DGT	18	O_Od_Pump_1	95	output	432
DGT	19	O_Od_Pump_2	95	output	433
DGT	20	O_Od_Comp_11	95	output	434
DGT	21	O_Od_Comp_21	95	output	435
DGT	22	O_Od_Comp_31_3	95	output	436
DGT	23	O_Od_CompHPump_1	95	output	437
DGT	24	O_Od_Comp_12	95	output	438
DGT	25	O_Od_Comp_22	95	output	439
DGT	26	O_Od_Comp_32_4	95	output	440
DGT	27	O_Od_CompHPump_2	95	output	441
DGT	28	O_Od_FCoil_1	95	output	442
DGT	29	O_Od_FCoil_2	95	output	443
DGT	30	O_Od_FCoil_3	95	output	444
DGT	31	O_Od_FCoil_4	95	output	445

	DS50	DS50
[On / Off] Unit	3111	3111
[Reset] Discharges the safety measures of the unit	3112	3112
[BMS] Activation of the Inoccupation mode [Off] occupation mode - [On] inoccupation mode	3935	3935
[Alarm] General	1000	1000
[On/Off] Pump, 1	2315	2315
[On/Off] Pump, 2	2317	2317
[On/Off] Compressor 1, Circuit 1	2416	2416
[On/Off] Compressor 2, Circuit 1	2426	2426
[On/Off] Compressor 3, Circuit 1 (WA) or Compressor 1, Circuit 3 (LC)	2436	2456
[On/Off] Compressor, Heat pump, Circuit 1	2417	
[On/Off] Compressor 1, Circuit 2	2446	2436
[On/Off] Compressor 2, Circuit 2	2456	2446
[On/Off] Compressor 3, Circuit 2 (WA) or Compressor 1, Circuit 4 (LC)	2466	2466
[On/Off] Compressor, Heat pump, Circuit 2	2447	
[On/Off] Fans, Circuit 1	2614	2614
[On/Off] Fans, Circuit 2	2664	2624
[On/Off] Fans, Circuit 3		2634
[On/Off] Fans, Circuit 4		2644

## Network Variable Naming Conventions:

The programmatic name of a network variable (in the "Name NV" column) may be prefixed with its storage class, as defined below. For compactness, underscores are typically not used and all characters are typically lowercase, except the first character of a word.

The following conventions are used, but not required:

```

network variable nviXXXXXXXXXXXXX
network variable nvoXXXXXXXXXXXXX
configuration network vnciXXXXXXXXXXXXX

```

Due to the limitation of 16 characters for names of the network variables and configuration properties, there is a convention for abbreviations. The following list represents some typical abbreviations, but it is not meant to be all-inclusive:

Actual	Act	Minimum	Min
Calendar	Cal	Parts-per-million	Ppm
Clear	Clr	Object	Obj
Continuous	Cont	Output	Out
Delay	Dly	Position	Pos
Device	Dev	Range	Rnge
Discrete	Disc	Request	Req
Electric	Elec	Rate	Rt
Feedback	Fb	Resistance	Res
Floating-point	f	Source	Src
Frequency	Freq	Standby	Stby
Hardware	Hw	String	Str
Increment	Inc	Table	Tbl
Inhibit	Inh	Time	T
Input	In	Translation	Trans
Level	Lev	Volume	Vol
Maximum	Max	Watt-hour	Whr
Micrometer	Micr		