



The following table shows the standard network variables of the DME400-LON:

Name	Type	Application			Description
		A11, A13 A14, A12 A15, A16	A34	A24 A44	
nvi00Request	SNVT_obj_request	●	●	●	Node Object
nvo00Status	SNVT_obj_status	●	●	●	Node Object
nviFileReq	SNVT_file_req	●	●	●	Node Object
nvoFileStat	SNVT_file_status	●	●	●	Node Object
nvo_VoltSY_Value	SNVT_volt_f	●	-	-	Input voltage
nvo_Volt12_Value	SNVT_volt_f	-	●	●	AC Phase-to-phase voltage L1 - L2
nvo_Volt23_Value	SNVT_volt_f	-	●	●	AC Phase-to-phase voltage L2 - L3
nvo_Volt13_Value	SNVT_volt_f	-	●	●	AC Phase-to-phase voltage L1 - L3
nvo_Volt1N_Value	SNVT_volt_f	-	-	●	AC Phase-to-neutral voltage L1 - N
nvo_Volt2N_Value	SNVT_volt_f	-	-	●	AC Phase-to-neutral voltage L2 - N
nvo_Volt3N_Value	SNVT_volt_f	-	-	●	AC Phase-to-neutral voltage L3 - N
nvo_VoltUM_Value	SNVT_volt_f	-	-	●	Average value of the voltage
nvo_AmpSY_Value	SNVT_amp_f	●	-	-	Input current
nvo_Amp01_Value	SNVT_amp_f	-	●	●	AC current L1
nvo_Amp02_Value	SNVT_amp_f	-	●	●	AC current L2
nvo_Amp03_Value	SNVT_amp_f	-	●	●	AC current L3
nvo_AmpIM_Value	SNVT_amp_f	-	●	●	Average value of the current
nvo_AmpMS_Value	SNVT_amp_f	-	●	●	Average value of the current and sign of the active power
nvo_AmpB0_Value	SNVT_amp_f	●	-	-	RMS value of the current with wire setting range (bimetal)
nvo_AmpB1_Value	SNVT_amp_f	-	●	●	RMS value of the current with wire setting range (bimetal), phase 1
nvo_AmpB2_Value	SNVT_amp_f	-	●	●	RMS value of the current with wire setting range (bimetal), phase 2
nvo_AmpB3_Value	SNVT_amp_f	-	●	●	RMS value of the current with wire setting range (bimetal), phase 3
nvo_AmpBS_Value	SNVT_amp_f	●	-	-	Slave pointer function for the measurement of the RMS value
nvo_AmpS1_Value	SNVT_amp_f	-	●	●	Slave pointer function for the measurement of the RMS value, phase 1
nvo_AmpS2_Value	SNVT_amp_f	-	●	●	Slave pointer function for the measurement of the RMS value, phase 2
nvo_AmpS3_Value	SNVT_amp_f	-	●	●	Slave pointer function for the measurement of the RMS value, phase 3
nvo_Frequency	SNVT_freq_f	●	●	●	Frequency of the input variable
nvo_TrueSY_Power	SNVT_power_f	●	●	●	Active power of the system
nvo_True01_Power	SNVT_power_f	-	-	●	Active power phase 1 (phase-to-neutral L1 - N)
nvo_True02_Power	SNVT_power_f	-	-	●	Active power phase 2 (phase-to-neutral L2 - N)
nvo_True03_Power	SNVT_power_f	-	-	●	Active power phase 3 (phase-to-neutral L3 - N)
nvo_ActSY_PwrFct	SNVT_pwr_fact	●	●	●	Active power factor cosφ = P/S
nvo_Act01_PwrFct	SNVT_pwr_fact	-	-	●	Active power factor phase 1, P1/S1
nvo_Act02_PwrFct	SNVT_pwr_fact	-	-	●	Active power factor phase 2, P2/S2
nvo_Act03_PwrFct	SNVT_pwr_fact	-	-	●	Active power factor phase 3, P3/S3
nvo_ReactSY_Pwr	SNVT_power_f	●	●	●	Reactive power of the system
nvo_React01_Pwr	SNVT_power_f	-	-	●	Reactive power phase 1 (phase-to-neutral L1 - N)
nvo_React02_Pwr	SNVT_power_f	-	-	●	Reactive power phase 2 (phase-to-neutral L2 - N)
nvo_React03_Pwr	SNVT_power_f	-	-	●	Reactive power phase 3 (phase-to-neutral L3 - N)
nvo_ApparSY_Pwr	SNVT_power_f	●	●	●	Apparent power of the system
nvo_Appar01_Pwr	SNVT_power_f	-	-	●	Apparent power phase 1 (phase-to-neutral L1 - N)
nvo_Appar02_Pwr	SNVT_power_f	-	-	●	Apparent power phase 2 (phase-to-neutral L2 - N)
nvo_Appar03_Pwr	SNVT_power_f	-	-	●	Apparent power phase 3 (phase-to-neutral L3 - N)
nvo_PwrSY_Fact	SNVT_pwr_fact	●	●	●	Power factor of the system
nvo_Pwr01_Fact	SNVT_pwr_fact	-	-	●	Power factor phase 1
nvo_Pwr02_Fact	SNVT_pwr_fact	-	-	●	Power factor phase 2
nvo_Pwr03_Fact	SNVT_pwr_fact	-	-	●	Power factor phase 3
nvo_ReactSY_Fact	SNVT_pwr_fact	●	●	●	Reactive power factor sinφ = Q/S
nvo_React01_Fact	SNVT_pwr_fact	-	-	●	Reactive power factor phase 1, Q1/S1
nvo_React02_Fact	SNVT_pwr_fact	-	-	●	Reactive power factor phase 2, Q2/S2
nvo_React03_Fact	SNVT_pwr_fact	-	-	●	Reactive power factor phase 3, Q3/S3
nvo_EnergyA	SNVT_elec_whr_f	●	●	●	Energy counter 1
nvo_EnergyB	SNVT_elec_whr_f	●	●	●	Energy counter 2
nvo_EnergyC	SNVT_elec_whr_f	●	●	●	Energy counter 3
nvo_EnergyD	SNVT_elec_whr_f	●	●	●	Energy counter 4
nvi_Reset_Energy	SNVT_lev_disc	●	●	●	Energy counter reset
nvi_ResSlavePnt	SNVT_lev_disc	●	●	●	Maximum value pointer reset

● Indicates whether the LONMARK Network is enabled.

Network variables of non-used objects all have the value zero. As these values do not change, they are not transmitted on the network.

The variables which are active can be determined by using the variable nvi00Request and nvo00Status in accordance with the definition of the SNVTs.

Table of contents

1. File Header	5
2. Node Objects	6
2.1. Node Object	6
2.2. Node Object	6
2.3. Node Object	7
2.4. Node Object	7
3. Voltage	8
3.1. AC Input voltage	8
3.2. AC Phase-to-phase voltage L1 - L2	8
3.3. AC Phase-to-phase voltage L2 - L3	8
3.4. AC Phase-to-phase voltage L1 - L3	8
3.5. AC Phase-to-neutral voltage L1 - N	8
3.6. AC Phase-to-neutral voltage L2 - N	9
3.7. AC Phase-to-neutral voltage L3 - N	9
3.8. Average value of the voltage	9
4. Current	10
4.1. AC Input current	10
4.2. AC current L1	10
4.3. AC current L2	10
4.4. AC current L3	10
4.5. Average value of the currents	10
4.6. Average value of the currents and sign of the active power	11
4.7. RMS value of the current with wire setting range (bimetal) 15Min	11
4.8. RMS value of the current with wire setting range (bimetal), phase 1 15Min	11
4.9. RMS value of the current with wire setting range (bimetal), phase 2 15Min	11
4.10. RMS value of the current with wire setting range (bimetal), phase 3 15Min	11
4.11. Slave pointer function for the measurement of the RMS value 15Min	12
4.12. Slave pointer function for the measurement of the RMS value, phase 1 15Min	12
4.13. Slave pointer function for the measurement of the RMS value, phase 2 15Min	12
4.14. Slave pointer function for the measurement of the RMS value, phase 3 15Min	12
5. Frequency	13
5.1. Frequency of the input variable	13
6. Active power	14
6.1. Active power of the system	14
6.2. Active power phase 1 (phase-to-neutral L1 – N)	14
6.3. Active power phase 2 (phase-to-neutral L2 – N)	14
6.4. Active power phase 3 (phase-to-neutral L3 – N)	14
7. Active power factor	15
7.1. Active power factor $\cos\phi = P/S$	15
7.2. Active power factor phase 1, P1/S1	15
7.3. Active power factor phase 2, P2/S2	15
7.4. Active power factor phase 3, P3/S3	15
8. Reactive power	16
8.1. Reactive power of the system	16
8.2. Reactive power phase 1 (phase-to-neutral L1 – N)	16
8.3. Reactive power phase 2 (phase-to-neutral L2 – N)	16
8.4. Reactive power phase 3 (phase-to-neutral L3 – N)	16

9. Apparent power	17
9.1. Apparent power of the system	17
9.2. Apparent power phase 1 (phase-to-neutral L1 – N)	17
9.3. Apparent power phase 2 (phase-to-neutral L2 – N)	17
9.4. Apparent power phase 3 (phase-to-neutral L3 – N)	17
10. Power factor	18
10.1. Power factor of the system	18
10.2. Power factor phase 1	18
10.3. Power factor phase 2	18
10.4. Power factor phase 3	18
11. Reactive power factor	19
11.1. Reactive power factor $\sin \phi = Q/S$	19
11.2. Reactive power factor phase 1, Q_1/S_1	19
11.3. Reactive power factor phase 2, Q_2/S_2	19
11.4. Reactive power factor phase 3, Q_3/S_3	19
12. Energy counters	20
12.1. Energy counter 1	20
12.2. Energy counter 2	20
12.3. Energy counter 3	20
12.4. Energy counter 4	20
13. Resets	21
13.1. Energy counter reset	21
13.2. Maximum value pointer reset	21

1. File Header

File: \DME400.XIF generated by APC Revision 2.70, XIF Version 3.1
Copyright (c) 1990, 1995 by Echelon Corporation
All Rights Reserved. Run on Fri May 29 10:14:58 1998

80:00:36:15:03:04:04:01

> Standard Program ID

2 15 1 57 1 3 3 3 3 3 11 11 11 11 0 0 8 0 1 1 11

0 5 6 13 28 952 0 15 5 3 277 4

1 7 1 0 4 4 4 15 200 0

78125 0 0 0 0 0 0 0 0 0 0

90 0 240 0 0 0 40 40 0 5 8 5 12 14 15

*

"&3.0@0,1

"1,3,3;DME400

TAG fx_explicit_tag 0 0 0 0

0063 1010101000

2. Node Objects

2.1. Node Object

VAR nvi00Request 0 0 0 0

Type: SNVT_obj_request

(Input Network Variable)

0 1 63 0 0 1 0 1 0 1 0 0 0

"@0|1

92 * 2

2 0 0 0 0

1 0 0 1 0

2.2. Node Object

VAR nvo00Status 1 0 0 0

Type: SNVT_obj_status

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@0|2

93 * 23

2 0 0 0 0

3 0 1 0 0

3 1 1 0 0

3 2 1 0 0

3 3 1 0 0

3 4 1 0 0

3 5 1 0 0

3 6 1 0 0

3 7 1 0 0

3 0 1 0 0

3 1 1 0 0

3 2 1 0 0

3 3 1 0 0

3 4 1 0 0

3 5 1 0 0

3 6 1 0 0

3 7 1 0 0

3 0 1 0 0

3 1 1 0 0

3 2 1 0 0

3 3 1 0 0

3 4 4 0 0

3 0 8 0 0

2.3. Node Object

VAR nv_file_request 2 0 0 0

Type: SNVT_file_req

(Output Network Variable)

0 1 63 0 0 1 0 1 0 1 0 1 0
"@0|5
73 * 6
1 0 0 1 0
2 0 0 0 0
2 0 0 0 0
4 0 5 0 0
1 0 0 1 0
1 0 0 1 0

2.4. Node Object

VAR nv_file_status 3 0 0 0

Type: SNVT_file_status

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 1 0
"@0|6
74 * 4
1 0 0 1 0
2 0 0 0 0
2 0 0 0 0
4 0 22 0 0

3. Voltage

3.1. AC Input voltage

VAR nvo_VoltSY_Value 4 0 0 0

Type: SNVT_volt_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@1|1

66 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

3.2. AC Phase-to-phase voltage L1 - L2

VAR nvo_Volt12_Value 5 0 0 0

Type: SNVT_volt_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@2|1

66 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

3.3. AC Phase-to-phase voltage L2 - L3

VAR nvo_Volt23_Value 6 0 0 0

Type: SNVT_volt_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@3|1

66 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

3.4. AC Phase-to-phase voltage L1 - L3

VAR nvo_Volt13_Value 7 0 0 0

Type: SNVT_volt_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@4|1

66 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

3.5. AC Phase-to-neutral voltage L1 - N

VAR nvo_Volt1N_Value 8 0 0 0

Type: SNVT_volt_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@5|1

66 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

3.6. AC Phase-to-neutral voltage L2 - N

VAR nvo_Volt2N_Value 9 0 0 0

Type: SNVT_volt_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@6|1

66 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

3.7. AC Phase-to-neutral voltage L3 - N

VAR nvo_Volt3N_Value 10 0 0 0

Type: SNVT_volt_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@7|1

66 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

3.8. Avarage value of the voltage

VAR nvo_VoltUM_Value 11 0 0 0

Type: SNVT_volt_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@8|1

66 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4. Current

4.1. AC Input current

VAR nvo_AmpSY_Value 12 0 0 0

Type: SNVT_amp_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@9|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.2. AC current L1

VAR nvo_Amp01_Value 13 0 0 0

Type: SNVT_amp_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@10|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.3. AC current L2

VAR nvo_Amp02_Value 14 0 0 0

Type: SNVT_amp_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@11|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.4. AC current L3

VAR nvo_Amp03_Value 15 0 0 0

Type: SNVT_amp_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@12|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.5. Average value of the currents

VAR nvo_AmpIM_Value 16 0 0 0

Type: SNVT_amp_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@13|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.6. Average value of the currents and sign of the active power

VAR nvo_AmpMS_Value 17 0 0 0 Type: SNVT_amp_f (Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@14|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.7. RMS value of the current with wire setting range (bimetal)

15Min.

VAR nvo_AmpB0_Value 18 0 0 0 Type: SNVT_amp_f (Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@15|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.8. RMS value of the current with wire setting range (bimetal), phase 1

15Min.

VAR nvo_AmpB1_Value 19 0 0 0 Type: SNVT_amp_f (Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@16|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.9. RMS value of the current with wire setting range (bimetal), phase 2

15Min.

VAR nvo_AmpB2_Value 20 0 0 0 Type: SNVT_amp_f (Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@17|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.10. RMS value of the current with wire setting range (bimetal), phase 3

15Min.

VAR nvo_AmpB3_Value 21 0 0 0 Type: SNVT_amp_f (Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@18|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.11. Slave pointer function for the measurement of the RMS value 15Min.

VAR nvo_AmpBS_Value 22 0 0 0 Type: SNVT_amp_f (Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@19|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.12. Slave pointer function for the measurement of the RMS value, phase 1 15Min.

VAR nvo_AmpS1_Value 23 0 0 0 Type: SNVT_amp_f (Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@20|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.13. Slave pointer function for the measurement of the RMS value, phase 2 15Min.

VAR nvo_AmpS2_Value 24 0 0 0 Type: SNVT_amp_f (Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@21|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

4.14. Slave pointer function for the measurement of the RMS value, phase 3 15Min.

VAR nvo_AmpS3_Value 25 0 0 0 Type: SNVT_amp_f (Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@22|1

48 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

5. Frequency

5.1. *Frequency of the input variable*

VAR nvo_Frequency 26 0 0 0

Type: SNVT_freq_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@23|1

75 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

6. Active power

6.1. Active power of the system

VAR nvo_TrueSY_Power 27 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@24|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

6.2. Active power phase 1 (phase-to-neutral L1 – N)

VAR nvo_True01_Power 28 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@25|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

6.3. Active power phase 2 (phase-to-neutral L2 – N)

VAR nvo_True02_Power 29 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@26|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

6.4. Active power phase 3 (phase-to-neutral L3 – N)

VAR nvo_True03_Power 30 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@27|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

7. Active power factor

7.1. Active power factor $\cos\phi = P/S$

VAR nvo_ActSY_PwrFct 31 0 0 0 Type: SNVT_power_fact (Output Network Variable)
0 1 63 1 0 1 0 1 0 1 0 0 0
"@28|1
98 * 1
2 0 0 1 0

7.2. Active power factor phase 1, $P1/S1$

VAR nvo_Act01_PwrFct 32 0 0 0 Type: SNVT_power_fact (Output Network Variable)
0 1 63 1 0 1 0 1 0 1 0 0 0
"@29|1
98 * 1
2 0 0 1 0

7.3. Active power factor phase 2, $P2/S2$

VAR nvo_Act02_PwrFct 33 0 0 0 Type: SNVT_power_fact (Output Network Variable)
0 1 63 1 0 1 0 1 0 1 0 0 0
"@30|1
98 * 1
2 0 0 1 0

7.4. Active power factor phase 3, $P3/S3$

VAR nvo_Act03_PwrFct 34 0 0 0 Type: SNVT_power_fact (Output Network Variable)
0 1 63 1 0 1 0 1 0 1 0 0 0
"@31|1
98 * 1
2 0 0 1 0

8. Reactive power

8.1. Reactive power of the system

VAR nvo_ReactSY_Pwr 35 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@32|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

8.2. Reactive power phase 1 (phase-to-neutral L1 – N)

VAR nvo_React01_Pwr 36 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@33|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

8.3. Reactive power phase 2 (phase-to-neutral L2 – N)

VAR nvo_React02_Pwr 37 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@34|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

8.4. Reactive power phase 3 (phase-to-neutral L3 – N)

VAR nvo_React03_Pwr 38 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@35|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

9. Apparent power

9.1. Apparent power of the system

VAR nvo_ApparSY_Pwr 39 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@36|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

9.2. Apparent power phase 1 (phase-to-neutral L1 – N)

VAR nvo_Appar01_Pwr 40 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@37|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

9.3. Apparent power phase 2 (phase-to-neutral L2 – N)

VAR nvo_Appar02_Pwr 41 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@38|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

9.4. Apparent power phase 3 (phase-to-neutral L3 – N)

VAR nvo_Appar03_Pwr 42 0 0 0 Type: SNVT_power_f (Output Network Variable)
 0 1 63 1 0 1 0 1 0 1 0 0 0
 "@39|1
 57 * 5
 3 0 1 0 0
 3 1 7 0 0
 3 0 1 0 0
 3 1 7 0 0
 2 0 0 0 0

10. Power factor

10.1. *Power factor of the system*

VAR nvo_PwrSY_Fact 43 0 0 0

Type: SNVT_pwr_fact

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@40|1

98 * 1

2 0 0 1 0

10.2. *Power factor phase 1*

VAR nvo_Pwr01_Fact 44 0 0 0

Type: SNVT_pwr_fact

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@41|1

98 * 1

2 0 0 1 0

10.3. *Power factor phase 2*

VAR nvo_Pwr02_Fact 45 0 0 0

Type: SNVT_pwr_fact

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@42|1

98 * 1

2 0 0 1 0

10.4. *Power factor phase 3*

VAR nvo_Pwr03_Fact 46 0 0 0

Type: SNVT_pwr_fact

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@43|1

98 * 1

2 0 0 1 0

11. Reactive power factor

11.1. *Reactive power factor $\sin\phi = Q/S$*

VAR nvo_ReactSY_Fact 47 0 0 0 Type: SNVT_pwr_fact (Output Network Variable)
0 1 63 1 0 1 0 1 0 1 0 0 0
"@44|1
98 * 1
2 0 0 1 0

11.2. *Reactive power factor phase 1, Q1/S1*

VAR nvo_React01_Fact 48 0 0 0 Type: SNVT_pwr_fact (Output Network Variable)
0 1 63 1 0 1 0 1 0 1 0 0 0
"@45|1
98 * 1
2 0 0 1 0

11.3. *Reactive power factor phase 2, Q2/S2*

VAR nvo_React02_Fact 49 0 0 0 Type: SNVT_pwr_fact (Output Network Variable)
0 1 63 1 0 1 0 1 0 1 0 0 0
"@46|1
98 * 1
2 0 0 1 0

11.4. *Reactive power factor phase 3, Q3/S3*

VAR nvo_React03_Fact 50 0 0 0 Type: SNVT_pwr_fact (Output Network Variable)
0 1 63 1 0 1 0 1 0 1 0 0 0
"@47|1
98 * 1
2 0 0 1 0

12. Energy counters

12.1. Energy counter 1

VAR nvo_EnergyA 51 0 0 0

Type: SNVT_elec_whr_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@48|1

68 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

12.2. Energy counter 2

VAR nvo_EnergyB 52 0 0 0

Type: SNVT_elec_whr_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@49|1

68 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

12.3. Energy counter 3

VAR nvo_EnergyC 53 0 0 0

Type: SNVT_elec_whr_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@50|1

68 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

12.4. Energy counter 4

VAR nvo_EnergyD 54 0 0 0

Type: SNVT_elec_whr_f

(Output Network Variable)

0 1 63 1 0 1 0 1 0 1 0 0 0

"@51|1

68 * 5

3 0 1 0 0

3 1 7 0 0

3 0 1 0 0

3 1 7 0 0

2 0 0 0 0

13. Resets

13.1. *Energy counter reset*

VAR nvi_ResetEnergy 55 0 0 0

Type: SNVT_lev_disc

(Input Network Variable)

0 1 63 0 0 1 0 1 0 1 0 0 0

"@52|1

22 * 1

1 0 0 1 0

13.2. *Maximum value pointer reset*

VAR nvi_ResSlavePnt 56 0 0 0

Type: SNVT_lev_disc

(Input Network Variable)

0 1 63 0 0 1 0 1 0 1 0 0 0

"@53|1

22 * 1

1 0 0 1 0