Logic Manager Forms

LM88-500

Implementation/
Logic Manager

Logic Manager Forms

LM88-500
1/96

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About This Publication

This publication defines which parameters are located on each form for the Logic Manager (LM) in TDC 3000. Additional information about the use of these parameters in data acquisition and control is in *LM Control Functions*.

This publication supports TDC 3000 software release 400.

Change bars are used to indicate paragraphs, tables, or illustrations containing changes that have been made to this manual effective with Release 400. Pages revised only to correct minor typographical errors contain no change bars. All changes made by previous Document Change Notices have been incorporated in this update.

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LOGIC MANAGER FORMS

LM **UCN Node** Configuration

LM **UCN Node** Configuration	**Engineer:**	**Date:**

UCN Node Configuration Display

NOTE

This form is intended primarily for use in configuring each LM on your system by selecting ***LM*** for **NODETYP** below. This same form can be used to configure each NIM on your system by selecting ***NIM*** for **NODETYP** (some different targets will appear as shown). If your system has other UCN devices (PM, APM, ALM), the NIMs can also be configured using the forms contained in the documentation for those devices.

NTWKNUM NIM's UCN That LM Is Connected To (Process Network Number)		|__.__|	*range* = 1 to 20 *default* = Not applicable
NODENUM LMM's or NIM's Address On The UCN		|__.__|	*range* = 1 to 64 *default* = Not applicable
NODETYP Type Of Node On The UCN	NotConfg Nim PM APM ***LM*** ALM		This NIM or LM not configured on UCN Network Interface Module Process Manager Module Advanced Process Manager Module Logic Manager Module Advanced Logic Manager Module
NODEASSN Node Assignment	***ThisNim*** RemotNim		NIM assigned to report alarms and perform checkpointing for network specified in NTWKNUM Additional NIM on a network that already has "ThisNIM" defined
			Applicable only if NODETYP = Nim
LOADSCOP Load Scope	NimOnly ***NimAndPm***		Configured data goes to the NIM only Configured data goes to NIM and LM
NMSGTXT Number of Message Text Items		|__.__|	*range* = 0 to 15 *default* = 0

DIGITAL COMPOSITE PV STATE TEXT

MOVPVTXT Moving Text	Moving	Individual point configuration specifies which input state is associated with this moving text. If NODENUM is even, this parameter is hidden.
BADPV TXT Bad Text	Bad	Individual point configuration specifies which input state is associated with the bad text. If NODENUM is even, this parameter is hidden.

LM **UCN Node** Configuration

LM **UCN Node** Configuration	**Engineer:**	**Date:**

Status Message Text Configuration Display

N/A if NMSGTXT = 0

MSGTXT(1) Status Message Text #1	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(2) Status Message Text #2	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(3) Status Message Text #3	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(4) Status Message Text #4	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(5) Status Message Text #5	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(6) Status Message Text #6	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(7) Status Message Text #7	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(8) Status Message Text #8	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(9) Status Message Text #9	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(10) Status Message Text #10	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(11) Status Message Text #11	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(12) Status Message Text #12	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(13) Status Message Text #13	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(14) Status Message Text #14	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank
MSGTXT(15) Status Message Text #15	|__.__.__.__.__.__.__.__|	*range* = *default* =	Eight Character String Blank

LM **Node Specific** Configuration

LM Configuration	**Engineer:**	**Date:**

WARNING: *If the point mix or the scan rate is changed, then the node's full database will be set to its default.*

LM Node Configuration Display

NTWKNUM |__.__|
NIM's UCN That LMM Is Connected To
range = 1 to 20
default = Not applicable

NODENUM |__.__|
LMM's Address On The UCN
range = 1 to 64
default = Not applicable

NODETYP
Type Of Node On The UCN

PM	Process Manager Module
APM	Advanced Process Manager Module
LM	Logic Manager Module
ALM	Advanced Logic Manager Module

NAISLOT |__.__.__|
Of Analog Input Slots
range = 0 to 127 for .5 second scanrate
0 to 254 for 1 second scanrate
default = 0

NAOSLOT |__.__|
Of Analog Output Slots
range = 0 to 482 for .5 second scanrate
0 to 965 for 1 second scanrate
default = 0

NDISLOT |__.__|
Of Digital Input Slots
range = 0 to 1866
default = 0

NDOSLOT |__.__|
Of Digital Output Slots
range = 0 to 4000
default = 0

NLOGSLOT |__.__|
Of Logic Slots
range = 0 to 14
default = 0

NDCSLOT |__.__.__|
Of Digital Composite Slots
range = 0 to 350
default = 0

NONETXT |__.__.__.__.__.__.__.__|
Digital Composite None State
range = Not applicable
default = None

NNUMERIC |__.__.__.__|
Of Numerics
range = 0 to 1024
default = 0

N/A if NNUMERIC = 0.

NNLSBA |__.__.__.__|
LM Start Addr of NUM Array
range = -1, 4096 to 8191
default = -1

PVFLTOPT
LM Data Conversion Option

Unsigned **Signed** Floating

NFLAG |__.__.__.__|
Of Flags
range = 0 to 1024
default = 0

LM **Node Specific** Configuration

N/A if NFLAG = 0.

FLLSBA LM Start Addr of Flag Array	|__.__.__.__|	*range* = *default* =	-1 to 4095 -1

NTIMER # Of Timers	|__.__.__.__|	*range* = *default* =	0 to 700 0		

SCANRATE LMM's Scan Rate In Times Per Second	AR1DT2 **AR2DT2**	Analog Scan Rate **1/sec.** *default* =	2/sec.	Dig & Timer Scan Rate **2/sec.** *default* =	2/sec.

LM **Analog Input Data** Point

LM **AnalgIn** Data Point	**Engineer:**	**Date:**

Point Assignment Display

NAME
Tag Name |__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__| *range* = Not applicable
default = Blank

NODETYP
Node Type
Node Type

PM	*range* =	Not applicable
APM	*default* =	PM
LM		
ALM		

PNTFORM
Point Form

Full	Point is fully displayed and alarmed
Componnt	Pt. is partially displayed but not alarmed

N/A if PNTFORM = Componnt.

PTDESC
Point Descriptor
range = Not applicable
default = Blank

|__.__|

EUDESC
Engineering Units Descriptor |__.__.__.__.__.__.__.__| *range* = Not applicable
default = Blank

KEYWORD
Point Keyword Descriptor |__.__.__.__.__.__.__.__| *range* = Not applicable
default = Blank

UNIT
Process Unit Point Is Assigned To |__.__| *range* = Alphanumeric
default = Not applicable

NTWKNUM
NIM's UCN That Contains This Point |__.__| *range* = 1 to 20
default = Not applicable

NODENUM
LMM's Address On The UCN |__.__| *range* = 1 to 64
default = Not applicable

SLOTNUM
Slot Number |__.__.__| *range* = 1 to 127 for .5 second scanrate
1 to 254 for 1 second scanrate
default = Not applicable

PLCADDR
LC Source Address |__.__.__.__| *range*= -1 to 8191
default = -1

LM **Analog Input Data** Point

NIM/PV Configuration Display

PVCHAR	***Linear***	Linear
PV Characterization Option	SqrRoot	Square root
	Btherm	B type thermocouple
	Etherm	E type thermocouple
	Jtherm	J type thermocouple
	Ktherm	K type thermocouple
	Rtherm	R type thermocouple
	RPtherm	RP type thermocouple
	Stherm	S type thermocouple
	Ttherm	T type thermocouple
	DinRtd	Din type Resistance Temp. Device
	JisRtd	Jis type Resistance Temp. Device
	NicklRtd	Nickel type Resistance Temp. Device
	CopprRtd	Copper type Resistance Temp. Dev.

N/A if PVCHAR = Linear, Sqrt.

PVTEMP	DegreesF	***DegreesC***	F = Fahrenheit; C = Celsius;
Thermal EUS For PV	DegreesR	DegreesK	R = Rankin; K = Kelvin

Only if PVCHAR = Linear, Sqrt.

INPTDIR	***Direct***	Highest energy from sensor = 100% PV
Analog Input Direction	Reverse	Highest energy from sensor = 0% PV

PVEUHI — *range* = PVEULO to PVEXEUHI
PV High Range In EUs |__.__.__.__.__.__.__.__| *default* = 100.0

PVEULO — *range* = PVEXEULO to PVEUHI
PV Low Range In EUs |__.__.__.__.__.__.__.__| *default* = 0.0

PVFLTOPT — **Unsigned** Signed Floating
LC Data Conversion Option

PVFORMAT — D0 D2 ***D1*** D3
PV Decimal Point Format
D0 = 9999**o** D2 = 99**o**99
D1 = 999**o**9 D3 = 9**o**999

PVCLAMP	***NoClamp***	No clamping of the PV value
PV Clamping Option	Clamp	Clamp PV value at range extension limit

Only if PVCHAR = Linear, Sqrt.

LOCUTOFF |__.__.__.__.__.__.__.__| *range* = PVEULO - PVEUHI and NaN
Low Signal CO For Flow Inputs *default* = NaN

N/A if PNTFORM = Componnt.

PVSRCOPT	***OnlyAuto***	PV source selection is not available and
PV Source Option		field wiring or memory fetch supplies PV.
	All	Selection from PVSOURCE is available
		& Operator/CL-program may supply PV.
PVSOURCE	***Auto***	**Applies when PVSRCOPT = All.**
PV Source	Man	Field wiring or memory fetch supplies PV.
	Sub	PV is supplied by Operator or program.
		A value is substituted by a CL program.

LM **Analog Input Data** Point

NIM/PV Configuration Display(continued)

TF
PV Filter Lag Time In Minutes |__.__.__.__| *range* = 0.0 to 60.0 (minutes)
default = 0.0 (PV will not be delayed)

N/A if PNTFORM = Componnt**.**

PVTV
PV Target Value In EUs |__.__.__.__.__.__.__.__| *range* = PVEULO-PVEUHI, &NaN
default = NaN

OVERVAL
Overview Display Value |__.__.__| *range* = 0 to 100
default = 25

Alarming Display

N/A if PNTFORM = Componnt.

The following two example parameters represent the typical format of alarm trip points and priorities. Please refer to these as you are entering trip points and alarm priorities that follow this information. **Note:** If you do not enter a trip point value for a given pair of trip points and alarm priorities, do not circle an alarm priority option for that pair (i.e., no trip point, no alarm priority).

PVLOTP
PV Low Alarm Trip Point |__.__.__.__.__.__.__.__| *range* = PVLLTP-PVHITP,& NaN
default = NaN

BADPVPR
BAD PV Alarm Priority

Emergncy	Reported to all Alarm Summary displays
High	Reported to Area & Unit Alarm Summary
Low	Reported to Unit Alarm Summary display
Journal	Logged but not reported to Op Stations
NoAction	Alarm is not reported to the system

N/A if PNTFORM = Componnt.

PVALDB
PV Alarm Deadband In %

Half (of 1%) ***One*** Two Three
Four Five EU

N/A if PNTFORM = Componnt, Only if PVALDB = EU.

PVALDBEU
PV Alarm Deadband in EU |__.__.__.__.__.__.__.__| *range* = ≥ 0
default = 1.0

N/A if PNTFORM = Componnt.

PVHITP
PV High Alarm Trip Point |__.__.__.__.__.__.__.__| *range* = PVLOTP - PVHHTP, & NaN
default = NaN

PVHIPR
PV High Alarm Priority
Noaction Journal ***Low*** High Emergncy

PVLOTP
PV Low Alarm Trip Point |__.__.__.__.__.__.__.__| *range* = PVLLTP - PVHITP, & NaN
default = NaN

PVLOPR
PV Low Alarm Priority
Noaction Journal ***Low*** High Emergncy

BADPVPR
Bad-PV Alarm Priority
Noaction Journal ***Low*** High Emergncy

LM **Analog Input Data** Point

NIM/PV Configuration Display(continued)

N/A if PNTFORM = Componnt.

ALENBST			Displayed	Logged	ReportedTo EIP
Point Alarm Enable Status		***Enable***	Yes	Yes	Yes
		Disable	No	Yes	Yes
		Inhibit	No	No	No
PRIMMOD	|__.__.__.__.__.__.__.__|		*range* =	Not applicable	
Primary Module ID			*default* =	Null	
CCSRC	|__.__.__.__|		*range* =	-1 to 8191	
Contact Cutout Source			*default* =	-1	

LM **Analog Output Data** Point

LM **AnalgOut** Data Point	**Engineer:**	**Date:**

Point Assignment Display

NAME — *range* = Not applicable
Tag Name |__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__| *default* = Blank

NODETYP — *range* = Not applicable
Node Type — PM, APM, ***LM***, ALM — *default* = PM

PNTFORM — ***Full*** — Point is fully displayed and alarmed
Point Form — Componnt — Point is partially displayed but not alarmed

N/A if PNTFORM = Componnt.

PTDESC — *range* = Not applicable
Point Descriptor — *default* = Blank
|___.___|

EUDESC |__.__.__.__.__.__.__.__| — *range* = Not applicable
Engineering Units Descriptor — *default* = Blank

KEYWORD |__.__.__.__.__.__.__.__| — *range* = Not applicable
Keyword Descriptor — *default* = Blank

UNIT |__.__| — *range* = Alphanumeric
Process Unit Point Is Assigned To — *default* = Not applicable

NTWKNUM |__.__| — *range* = 1 to 20
NIM's UCN That Contains This Point — *default* = Not applicable

NODENUM |__.__| — *range* = 1 to 64
LMM's Address On The UCN — *default* = Not applicable

SLOTNUM |__.__.__| — *range* = 1 to 482 .5 second scanrate; 1 to 965 1 second scanrate
Slot Number — *default* = Not applicable

PLCADDR — *range* = -1 to 2047, 4097 to 8191
LC Source Address |__.__.__.__| — *default* = -1

LM **Analog Output Data** Point

Operating Configuration Display

OPTDIR(AnalgOut)	***Direct***	For final OP: 0% =>4ma; 100% =>20ma
AO Direct/Reverse Action	Reverse	For final OP: 0% =>20ma; 100% =>4ma

PVFLTOPT	***Unsigned***	Signed	Floating
LC Data Conversion Option			

Mode Configuration Display

N/A if PNTFORM = Componnt.

RCASOPT	***None***	No cascade mode of any type is allowed
Remote Cascade Option	Ddc	In Cas, AM point controls this point's OP
NMODE		**None, Man applies when RCASOPT = None.**
AnalOut Point's Normal Mode	***None***	**None, Man, Cas applies when RCASOPT =**
	Man	**Ddc.**
	Cas	No configured "normal" operating mode Manual is the configured "normal" mode If RCASOPT equals Ddc, Cascade may be configured as the "normal" mode.

N/A if NMODE = None, or if PNTFORM = Componnt.

NMODATTR	***None***	Parameter NMODE sets "normal" mode
Normal Mode Attribute	Operator	Operator sets "normal" operating mode
	Program	Program sets "normal" operating mode
MODEPERM	***Permit***	Operator can change this point's mode
Mode Permissive	NotPerm	Optr. cannot change this point's mode

LM **Digital Composite Data** Point

LM **DigComp** Data Point	**Engineer:**	**Date:**

Point Assignment Display

NAME
Tag Name |__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__|
range = Not applicable
default = Blank

NODETYP
Node Type

PM	
APM	
LM	
ALM	

range = Not applicable
default = PM

PNTFORM
Point Form

Full	Point is fully displayed and alarmed
Componnt	Pt. is partially displayed but not alarmed

N/A if PNTFORM = Componnt.

PTDESC
Point Descriptor
|___.___|
range = Not applicable
default = Blank

EUDESC
Engineering Units Descriptor |__.__.__.__.__.__.__.__|
range = Not applicable
default = Blank

KEYWORD
Keyword Descriptor |__.__.__.__.__.__.__.__|
range = Not applicable
default = Blank

UNIT
Process Unit Point Is Assigned To |__.__|
range = Alphanumeric
default = Not applicable

NTWKNUM
NIM's UCN That Contains This Point |__.__|
range = 1 to 20
default = Not applicable

NODENUM
LMM's Address On The UCN |__.__|
range = 1 to 64
default = Not applicable

SLOTNUM
Slot Number |__.__.__|
1 to 350 (but ≤ the value in NDCSLOT)
default = Not applicable

NOSTATES
Number Of Digital States

2	2 digital switch states can be configured
3	3 digital switch states can be configured

NODINPTS
Of Digital Input Connections

0	0 digin connections can be configured
1	1 digin connections can be configured
2	2 digin connections can be configured

NODOPTS
Of Digital Output Connections

0	0 digout connections can be configured
1	1 digout connections can be configured
2	2 digout connections can be configured
3	3 digout connections can be configured

LM **Digital Composite Data** Point

State Configuration Display

N/A if PNTFORM = Componnt.

STATETXT (1)		*range* = Not applicable
State 1 Descriptor	(1)|__.__.__.__.__.__.__.__|	*default* = On
	(0)|__.__.__.__.__.__.__.__|	(1) = First active state
	(2)|__.__.__.__.__.__.__.__|	(0) = Inactive state (2) = Second active state
STATETXT (0)		*range* = Not applicable
State 0 Descriptor	(1)|__.__.__.__.__.__.__.__|	*default* = Off
	(0)|__.__.__.__.__.__.__.__|	(1) = First active state
	(2)|__.__.__.__.__.__.__.__|	(0) = Inactive state (2) = Second active state
STATETXT (2)		*range* = Not applicable
State 2 Descriptor	(1)|__.__.__.__.__.__.__.__|	*default* = "State2"
	(0)|__.__.__.__.__.__.__.__|	(1) = First active state
	(2)|__.__.__.__.__.__.__.__|	(0) = Inactive state (2) = Second active state

BOXCLR(1) State 1 Box Color	Red Cyan	***Green*** (Middle box default) Yellow		White Blue	Black Magenta
BOXCLR(0) State 0 Box Color	Red Cyan	Green ***Yellow*** (Middle box default)		White Blue	Black Magenta
BOXCLR(2) State 2 Box Color	***Red*** (Lower box default) Cyan		Green Yellow	White Blue	Black Magenta

N/A if NODOPTS = 0.

MOMSTATE	***None***	No momentary output states
Momentary Output States	Mom_0	State 0 is valid if (NOSTATES = 2)
	Mom_1	State 1 is valid if (NOSTATES = 2 or 3)
	Mom_2	State 2 is valid if (NOSTATES = 3)
	Mom_1_2	State 1 or 2 is valid if (NOSTATES = 3)

N/A if PNTFORM = Componnt.

LOGICSRC	
(Logical Input Connection Source)	|___.___.___.___.___.___.___.___.___.___|

DISRC(Digital Input Connection Source)

Input #	**DISRC**(point.parameter)	Destination
1	|___.___.___.___.___.___.___.___**o**___.___.___.___.___.___.___.___|	D1
2	|___.___.___.___.___.___.___.___**o**___.___.___.___.___.___.___.___|	D2

LM **Digital Composite Data** Point

PV / Input Configuration Display

Applies if NODINPTS = to 1.

D1_1	***PVState1***	Use & display contents of STATETXT1
D1_One PV State	PVState0	Use & display contents of STATETXT0

N/A if NODINPTS = 1.

D2D1_00	PVState1	Use & display contents of STATETXT1
D2_D1 Zero_Zero PV State	PVState0	Use & display contents of STATETXT0
	PVState2	Use & display contents of STATETXT2
	BadPV	Use & display contents of BADPVTXT
	MovPV	Use & display contents of MOVPVTXT
D2D1_01	***PVState1***	Use & display contents of STATETXT1
D2D1 Zero_One PV State	PVState0	Use & display contents of STATETXT0
	PVState2	Use & display contents of STATETXT2
	MovPV	Use & display contents of MOVPVTXT
	BadPV	Use & display contents of BADPVTXT
D2D1_10	PVState1	Use & display contents of STATETXT1
D2D1 One_Zero PV State	***PVState0***	Use & display contents of STATETXT0
	PVState2	Use & display contents of STATETXT2
	BadPV	Use & display contents of BADPVTXT
	MovPV	Use & display contents of MOVPVTXT
D2D1_11	PVState1	Use & display contents of STATETXT1
D2D1 One_One PV State	PVState0	Use & display contents of STATETXT0
	PVState2	Use & display contents of STATETXT2
	MovPV	Use & display contents of MOVPVTXT
	BadPV	Use & display contents of BADPVTXT

N/A if PNTFORM = Componnt, or if NODINPTS = 0.

PVSRCOPT	OnlyAuto	PV source selection is not available and field wiring or memory fetch supplies PV.
PV Source Option	***All***	Selection from PVSOURCE is available & Operator/CL-program may supply PV.
PVSOURCE	***Auto***	**Applies when PVSRCOPT = All.**
PV Source	Man	Field wiring or memory fetch supplies PV.
	Sub	PV is supplied by Operator or program.
	Track	A value is substituted by a CL program PV tracks the output.

Output Configuration Display

N/A if NODOPTS = 0.

NONECONF	On	
None State Configuration	***Off***	

LM **Digital Composite Data** Point

Output Configuration Display (continued)

N/A if NODOPTS = 0

STATE1	OUTPUT 1	OUTPUT 2	OUTPUT 3
ST1_OP1 (NODOPTS = 1) State1 - Output 1	***Off*** On	Not applicable	Not applicable
ST1_OP2 (NODOPTS = 2) State 1 - Output 2	***Off*** On	***Off*** On	Not applicable
ST1_OP3 (NODOPTS = 3) State 1 - Output 3	***Off*** On	***Off*** On	***Off*** On
STATE0			
ST0_OP1 (NODOPTS = 1) State 0 - Output 1	***Off*** On	Not applicable	Not applicable
ST0_OP2 (NODOPTS = 2) State 0 - Output 2	***Off*** On	***Off*** On	Not applicable
ST0_OP3 (NODOPTS = 3) State 0 - Output 3	***Off*** On	***Off*** On	***Off*** On
STATE 2			
ST2_OP1 (NODOPTS = 1) State 2 - Output 1 On	***Off*** 	Not applicable	Not applicable
ST2_OP2 (NODOPTS = 2) State 2 - Output 2 On	***Off*** On	***Off*** 	Not applicable
ST2_OP3 (NODOPTS = 3) State 2 - Output 3 On	**Off** On	***Off*** On	***Off***

N/A if NODOPTS = 0.

DODSTN(Digital Output Connection Destination)

Output #	**DODSTN**(point.parameter)	NODOPTS
1	|___.___.___.___.___.___.___.___**o**___.___.___.___.___.___.___.___|	1
2	|___.___.___.___.___.___.___.___**o**___.___.___.___.___.___.___.___|	2
3	|___.___.___.___.___.___.___.___**o**___.___.___.___.___.___.___.___|	3

PISRC(N)
Permissive Interlock Source in the LC

OISRC(N)
Override Interlock Source Addresses in the LC

STATE1		P1 |__.__.__|	I1 |__.__.__|
STATE0		P0 |__.__.__|	I0 |__.__.__|
STATE2	(N/A if NOSTATES = 2)	P2 |__.__.__|	I2 |__.__.__|

LM **Digital Composite Data** Point

Output Configuration Display (continued)

N/A if NODOPTS = 0.

LMSRC	|__.__.__.__|	*range* = -1 - 8191
Local Manual Source in the LC		*default* = -1

Mode Configuration Display

N/A if NODOPTS = 0.

NMODATTR	***None***	Parameter NMODE sets "normal" mode
Normal Mode Attribute	Operator	Operator sets "normal" operating mode
	Program	Program sets "normal" operating mode
MODEPERM	***Permit***	Operator can change this point's mode
Mode Permissive	NotPerm	Optr. cannot change this point's mode
OROPT	***Off***	
Interlock Bypass Option	On	
BYPASS	***Off***	**Applies when OROPT = On.**
Interlock Bypass State	On	

Alarming Display

N/A if PNTFORM = Componnt, or if NODINPTS = 0.

ALMOPT	***None***	No affect		
Alarming Option	Cmddis	Alarm if field device did not respond within configured feedback time duration		
	Offnorml	Alarm if PV and PVNORMAL differs.		
FBTIME		**Applies when ALMOPT = Cmddis**.		
Feedback Time In Seconds	|__.__.__.__|	*range* = 1 to 1000		
		default = 1000		
PVNORMAL		**Applies when ALMOPT = Offnorml.**		
PV Value's Normal State Text	***Off***	*range* = STATETXT(0) - STATETX(2)		
ALENBST		**Applies when ALMOPT = Offnorml, Cmddis.**		
Point Alarm Enable Status		Displayed	Logged	Reported To EIP
	Enable	Yes	Yes	Yes
	Disable	No	Yes	Yes
	Inhibit	No	No	No

LM **Digital Composite Data** Point

Alarming Display (continued)

N/A if PNTFORM = Componnt, or if NODINPTS = 0.

ALPRIOR			**Applies when ALMOPT = Offnorml,**
Alarm Priority			**Cmddis.**
		NoAction	Alarm is not reported to the system
		Journal	Logged but not reported to Op Stations
		Low	Reported to Unit Alarm Summary display
		High	Reported to Area & Unit Alarm Summary
		Emergncy	Reported to all Alarm Summary displays
EVTOPT			**Applies when ALMOPT = None, Offnorml,**
Event Report Option			**Cmddiis.**
		None	Neither Eip or Soe is allowed
		Eip	Process special is triggered in AM/CG
EIPPCODE			**Applies when EVTOPT = Eip.**
Event Init. Proc. Destination	|__.__.__.__.__.__.__.__|		*range* = Not applicable
			default = Null

N/A if ALMOPT = None, or if PNTFORM = Componnt, or if NODINPTS = 0.

PRIMMOD	|__.__.__.__.__.__.__.__|	*range* =	Not applicable
Primary Module ID		*default* =	Null

N/A if PNT FORM = Componnt, or if NODINPTS = 0.

CCSRC	|__.__.__.__|	*range* =	-1 to 8191
Contact Cutout Source		*default* =	-1

LM **Digital Input Data** Point

LM **DigIn** Data Point	**Engineer:**	**Date:**

Point Assignment Display

NAME Tag Name |__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__|		*range* = Not applicable *default* = Blank
NODETYP Node Type	PM APM ***LM*** ALM	*range* = Not applicable *default* = PM
PNTFORM Point Form	***Full*** Componnt	Point is fully displayed and alarmed Pt. is partially displayed but not alarmed N/A if PNTFORM = Componnt.
PTDESC Point Descriptor |___.__|		*range* = Not applicable *default* = Blank
EUDESC Engineering Units Descriptor	|__.__.__.__.__.__.__.__|	*range* = Not applicable *default* = Blank
KEYWORD Keyword Descriptor	|__.__.__.__.__.__.__.__|	*range* = Not applicable *default* = Blank
UNIT Process Unit Point Is Assigned To	|__.__|	*range* = Alphanumeric *default* = Not applicable
NTWKNUM NIM's UCN That This Point Is In	|__.__|	*range* = 1 to 20 *default* = Not applicable
NODENUM LMM's Address On The UCN	|__.__|	*range* = 1 to 64 *default* = Not applicable
SLOTNUM Slot Number	|__.__.__|	*range* = 1 to 1866 *default* = Not applicable
PLCADDR LC Source Address	|__.__.__.__|	*range* = -1 to 8191 *default* = -1
DITYPE Digital Input Type	***Status***	Status input (open/closed contacts)

LM **Digital Input Data** Point

Operating Configuration Display

				N/A if PNTFORM = Componnt.	
STATETXT(1) State1 Description Text	1)|__.__.__.__.__.__.__.__|		*range* = *default* =	Not applicable "On"	
STATETXT(0) State0 Description Text	0)|__.__.__.__.__.__.__.__|		*range* = *default* =	Not applicable "Off"	
BOXCLR(1) State 1 Box Color	Red Cyan	***Green(*** Yellow	(Upper box default)	Black Blue	 Magenta
BOXCLR(0) State 0 Box Color	Red Cyan	Green ***Yellow***	White (Lower box default)	Black Blue	 Magenta
INPTDIR Digital Input Direction		***Direct*** Reverse	Open=>pvraw=off; Closed=>pvraw=on Closed=>pvraw=off; Open=>pvraw=on		
PVSRCOPT PV Source Option		***OnlyAuto*** All	PV source selection is not available and field wiring or memory fetch supplies PV. Selection from PVSOURCE is available & Operator/CL-program may supply PV.		
PVSOURCE PV Source		 ***Auto*** Man Sub	**Applies when PVSRCOPT = All.** Field wiring or memory fetch supplies PV PV is supplied by Operator or program A value is substituted by a CL program		

LM **Digital Input Data** Point

Alarming Display

N/A if PNTFORM = Componnt.

ALMOPT		***None***	No affect
Alarming Option		Offnorml	Alarm if PV and PVNORMAL differs
PVNORMAL			**Applies when ALMOPT = Offnorml.**
PV Value's Normal State Text	|__.__.__.__.__.__.__.__|		*range* = STATETXT(0) - STATETX(1)
			default = Text equal to "Off"
DLYTIME			**Applies when ALMOPT = Offnorml.**
Alarm Delay In Seconds	|__.__|		*range* = 0 to 60
			default = 5 (second)
ALPRIOR			**Applies when ALMOPT = Offnorml.**
Alarm Priority		NoAction	Alarm is not reported to the system
		Journal	Logged but not reported to Op Stations
		Low	Reported to Unit Alarm Summary display
		High	Reported to Area & Unit Alarm Summary
		Emergncy	Reported to all Alarm Summary displays
ALENBST			**Applies when ALMOPT = Offnorml.**
			Displayed / Logged / Reported To EIP
Point Alarm Enable Status		***Enable***	Yes / Yes / Yes
		Disable	No / Yes / Yes
		Inhibit	No / No / No
EVTOPT			**Applies when ALMOPT = None, Offnorml.**
		None	Eip is not allowed
Event Reporting Option		Eip	Process special is triggered in AM/CG Point will notify Seq. Of Events process Eip is allowed
EIPPCODE			**Applies when EVTOPT = Eip.**
	|__.__.__.__.__.__.__.__|		*range* = Not applicable
Event Init Proc Destination			*default* = Null
			N/A if ALMOPT = None.
PRIMMOD			**Applies when ALMOPT = Offnorml.**
	|__.__.__.__.__.__.__.__|		*range* = Not applicable
Primary Module ID			*default* = Null
CCSRC			**Applies when ALMOPT = None, Offnorml.**
Contact Cutout Source	|__.__.__.__|		*range* = -1 to 8191
			default = -1

LM **Digital Output Data** Point

LM **DigOut** Data Point	**Engineer:**	**Date:**

Point Assignment Display

NAME
Tag Name |__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__| *range* = Not applicable
default = Blank

NODETYP
Node Type
PM
APM
LM
ALM
range = Not applicable
default = PM

PNTFORM
Point Form
FULL Point is fully displayed and alarmed
Componnt Point is partially displayed but not alarmed

N/A if PNTFORM = Componnt.

PTDESC
Point Descriptor
range = Not applicable
default = Blank

|__.__|

EUDESC |__.__.__.__.__.__.__.__| *range* = Not applicable
Engineering Units Descriptor *default* = Blank

KEYWORD |__.__.__.__.__.__.__.__| *range* = Not applicable
Point Keyword Descriptor *default* = Blank

UNIT |__.__| *range* = Alphanumeric
Process Unit Point Is Assigned To *default* = Not applicable

NTWKNUM |__.__| *range* = 1 to 20
NIM's UCN That Contains This Point *default* = Not applicable

NODENUM |__.__| *range* = 1 to 64
LMM's Address On The UCN *default* = Not applicable

SLOTNUM |__.__.__| *range* = 1 to 4000
Slot Number *default* = Not applicable

PLCADDR *range* = -1 to 8191
LC Source Address |__.__.__.__| *default* = -1

DOTYPE
Digital Output Type
Status Status type output
Pulse Width Modulated type output

LM **Digital Output Data** Point

Operating Configuration Display (continued)

				N/A if PNTFORM = Componnt.	
STATETXT(1) State1-Description Text	1)|__.__.__.__.__.__.__.__.__.__|		*range* = *default* =	Not applicable "On"	
STATETXT(0) State0-Description Text	0)|__.__.__.__.__.__.__.__.__.__|		*range* = *default* =	Not applicable "Off"	
BOXCLR(1) State 1 Box Color	Red Cyan	***Green*** Yellow	(Upper box default) White	Black Blue	 Magenta
BOXCLR(0) State 0 Box Color	Red Cyan	Green ***Yellow***	White (Lower box default)	Black Blue	 Magenta
NMODATTR Normal Mode Attribute		***None*** Operator Program	Parameter NMODE sets "normal" mode Operator sets "normal" operating mode Program sets "normal" operating mode		
MODEPERM Mode Permissive		***Permit*** NotPerm	Operator can change this point's mode Optr. cannot change this point's mode		

LM **Logic Data** Point

LM **Logic** Data Point	**Engineer:**	**Date:**

Point Assignment Display

NAME
Tag Name |__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__| *range* = Not applicable *default* = Blank

NODETYP
Node Type
PM
APM
LM
ALM
range = Not applicable
default = PM

PNTFORM
Point Form
Full Componnt
Point is fully displayed and alarmed
Point is partially displayed but not alarmed

N/A if PNTFORM = Componnt.

PTDESC
Point Descriptor
range = Not applicable
default = Blank

|__.__|

UNIT
Process Unit Point Is Assigned To |__.__| *range* = Alphanumeric *default* = Not applicable

NTWKNUM
NIM's UCN That This Point Is In |__.__| *range* = 1 to 20 *default* = Not applicable

NODENUM
LMM's Address On The UCN |__.__| *range* = 1 to 64 *default* = Not applicable

SLOTNUM
Slot Number |__.__.__| *range* = 1 to 14 (but ≤ NLOGSLOT) *default* = Not applicable

LOGMIX
Logic Mix
12_0_12 12 inputs 0 logic blocks 12 outputs

NIM Input Connections Display

PVFLTOPT(1) (Data Format) 1) Unsigned Signed Floating ***Boolean***

LISRC (Logic Point Inputs) Source Point **o** Parameter

LISRC(1) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

PVFLTOPT(2) (Data Format) 2) Unsigned Signed Floating ***Boolean***

LISRC(2) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

PVFLTOPT(3) (Data Format) 3) Unsigned Signed Floating ***Boolean***

LISRC(3) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

LM **Logic Data** Point

NIM Input Connections Display (continued)

PVFLTOPT(4) (Data Format) 4) Unsigned Signed Floating ***Boolean***

LISRC(4) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

PVFLTOPT(5) (Data Format) 5) Unsigned Signed Floating ***Boolean***

LISRC(5) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

PVFLTOPT(6) (Data Format) 6) Unsigned Signed Floating ***Boolean***

LISRC(6) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

PVFLTOPT(7) (Data Format) 7) Unsigned Signed Floating ***Boolean***

LISRC(7) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

PVFLTOPT(8) (Data Format) 8) Unsigned Signed Floating ***Boolean***

LISRC(8) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

PVFLTOPT(9) (Data Format) 9) Unsigned Signed Floating ***Boolean***

LISRC(9) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

PVFLTOPT(10) (Data Format) 10) Unsigned Signed Floating ***Boolean***

LISRC(10) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

PVFLTOPT(11) (Data Format) 11) Unsigned Signed Floating ***Boolean***

LISRC(11) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

PVFLTOPT(12) (Data Format) 12) Unsigned Signed Floating ***Boolean***

LISRC(12) |__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|

LIBADOPT	Off	"Off" state is substituted for bad input
Logic Bad Input Handling Option	On	"On" state is substituted for bad input
	Hold	Last good value is subst. for bad input

LM **Logic Data** Point

NIM Logic Output Connections Display

Logic Output Destination Table
LODSTN (Logic-Output-Connection Destination)
Destination Point**o**Parameter
defaults = blank.blank

LOENBL
*default*s = -1
range = -1 to 8191

01	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
02	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
03	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
04	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
05	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
06	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
07	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
08	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
09	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
10	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
11	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|
12	|__.__.__.__.__.__.__.__**o**__.__.__.__.__.__.__.__|	|__.__.__.__|

NIM Logic Descriptors Display - N/A if PNTFORM = Componnt.

NODESC
Number Of Generic Descriptors |__.__| *range* = 0 to 12 *default* = 0

Descr#	Generic Descriptors(*defaults*= blanks)
1	**GENDESC**(1) |__.__.__.__.__.__.__.__|
2	**GENDESC**(2) |__.__.__.__.__.__.__.__|
3	**GENDESC**(3) |__.__.__.__.__.__.__.__|
4	**GENDESC**(4) |__.__.__.__.__.__.__.__|
5	**GENDESC**(5) |__.__.__.__.__.__.__.__|
6	**GENDESC**(6) |__.__.__.__.__.__.__.__|
7	**GENDESC**(7) |__.__.__.__.__.__.__.__|
8	**GENDESC**(8) |__.__.__.__.__.__.__.__|
9	**GENDESC**(9) |__.__.__.__.__.__.__.__
10	**GENDESC**(10) |__.__.__.__.__.__.__.__|
11	**GENDESC**(11) |__.__.__.__.__.__.__.__|
12	**GENDESC**(12) |__.__.__.__.__.__.__.__|

LM **Flag** Point

LM **Flag** Data Point	**Engineer:**	**Date:**

Point Assignment Display

NAME
Tag Name |__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__| *range* = Not applicable *default* = Blank

NODETYP
Node Type

PM
APM
LM
ALM

range = Not applicable
default = PM

PNTFORM
Point Form

Full Point is fully displayed and alarmed
Componnt Point is partially displayed but not alarmed

N/A if PNTFORM = Componnt.

PTDESC
Point Descriptor
range = Not applicable
default = Blank

|__.__|

EUDESC |__.__.__.__.__.__.__.__| *range* = Not applicable
Engineering Units Descriptor *default* = Blank

KEYWORD |__.__.__.__.__.__.__.__| *range* = Not applicable
Point Keyword *default* = Blank

UNIT |__.__| *range* = Alphanumeric
Process Unit Point Is Assigned To *default* = Not applicable

NTWKNUM |__.__| *range* = 1 to 20
NIM's UCN That This Point Is In *default* = Not applicable

NODENUM |__.__| *range* = 1 to 64
LMM's Address On The UCN *default* = Not applicable

SLOTNUM |__.__.__.__.__| *range* = 1 to 1024
Slot Number Within LMM *default* = Not applicable

Operating Configuration Display

N/A if PNTFORM = Componnt.

STATETXT(1) |__.__.__.__.__.__.__.__| *range* = Not applicable
STATE 1 DESCRIPTOR *default* = ON

STATETXT(0) |__.__.__.__.__.__.__.__| *range* = Not applicable
STATE 0 DESCRIPTOR *default* = OFF

BOXCLR(1)	Red	Green	White	Black
State 1 Box Color	Cyan	**Yellow**	Blue	Magenta
BOXCLR(0)	Red	**Green**	White	Black
State 0 Box Color	Cyan	Yellow	Blue	Magenta

LM **Flag** Point

Alarming Display

			N/A if PNTFORM = Componnt.
ALPRIOR Alarm Priority		NoAction Journal ***Low*** High Emergncy	Alarm is not reported to the system Logged but not reported to Op Stations Reported to Unit Alarm Summary display Reported to Area & Unit Alarm Summary Reported to all Alarm Summary displays
ALENBST Alarm Enable State		**Enable** Disable Inhibit	*default* = Enable
EIPPCODE EIP POINT ID	|__.__.__.__.__.__.__.__|		*range* = Not Applicable *default* = Blank
PRIMMOD Primary Module ID	|__.__.__.__.__.__.__.__|		*range* = Not applicable *default* = Null
CCSRC Contact Cutout Source	|__.__.__.__|		*range* = -1 to 8191 *default* = -1

LM **Timer** Point

LM **Timer** Data Point	**Engineer:**	**Date:**

Point Assignment Display

NAME
Tag Name |__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__|
range = Not applicable
default = Blank

NODETYP
Node Type
PM
APM
LM
ALM
range = Not applicable
default = PM

PNTFORM
Point Form
Full Point is fully displayed and alarmed
Componnt Point is partially displayed but not alarmed

N/A if PNTFORM = Componnt.

PTDESC
Point Descriptor
range = Not applicable
default = Blank

|__.__|

EUDESC |__.__.__.__.__.__.__.__|
Engineering Units Descriptor
range = Not applicable
default = Blank

KEYWORD |__.__.__.__.__.__.__.__|
Keyword Descriptor
range = Not applicable
default = Blank

UNIT |__.__|
Process Unit Point Is Assigned To
range = Alphanumeric
default = Not applicable

NTWKNUM |__.__|
NIM's UCN That Contains This Point
range = 1 to 20
default = Not applicable

NODENUM |__.__|
LMM's Address On The UCN
range = 1 to 64
default = Not applicable

SLOTNUM |__.__.__|
Slot Number Within LMM
range = 1 to 700
default = Not applicable

PLCADDR |__.__.__.__|
LC Target Address
range = -1 to 4095
default = -1

PVSLTSRC |__.__.__.__|
LC Accumulator Address
range = -1 or 4097 to 8191
default = -1

LM **Timer** Point

NIM Operating Configuration Display

TIMEBASE Timer Base Period		**SECONDS** MINUTES	*range* = *default* =	Seconds/Minutes Seconds

PVFORMAT PV Decimal Format	**D0**	D1	D2

LM **Numeric** Point

LM **Numeric** Data Point	**Engineer:**	**Date:**

Point Assignment Display

NAME
Tag Name |__.__.__.__.__.__.__.__.__.__.__.__.__.__.__.__| *range* = Not applicable *default* = Blank

NODETYP
Node Type
PM
APM
LM
ALM
range = Not applicable
default = PM

PNTFORM
Point Form
Full Point is fully displayed and alarmed
Componnt Point is partially displayed but not alarmed

N/A if PNTFORM = Componnt.

PTDESC
Point Descriptor
range = Not applicable
default = Blank

|__.__|

EUDESC |__.__.__.__.__.__.__.__|
Engineering Units Descriptor
range = Not applicable
default = Blank

KEYWORD |__.__.__.__.__.__.__.__|
Keyword Descriptor
range = Not applicable
default = Blank

UNIT |__.__|
Process Unit Point Is Assigned To
range = Alphanumeric
default = Not applicable

NTWKNUM |__.__|
NIM's UCN That Contains This Point
range = 1 to 20
default = Not applicable

NODENUM |__.__|
LMM's Address On The UCN
range = 1 to 64
default = Not applicable

SLOTNUM |__.__.__|
Slot Number Within LMM
range = 1 to 1024
default = Not applicable

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