

Table 1-2. Nomenclature

Nomenclature	Hardware/Description
IMMFP12	Multi-function processor module
NIMP01/02	Multi-function processor module termination module
NKMP01	MFP redundancy cable
NKMR02	RS-232-C cable
NKSE01	Serial extension cable (PVC)
NKSE11	Serial extension cable (non-PVC)
NKTU01	Termination unit cable (PVC)
NKTU02	Termination module cable (PVC)
NKTU11	Termination unit cable (non-PVC)
NKTU12	Termination module cable (non-PVC)
NTMP01	Multi-function processor module termination unit

DOCUMENT CONVENTIONS

The ? in a nomenclature or a part number indicates a variable for that position (e.g., IMMFP1?)

GLOSSARY OF TERMS AND ABBREVIATIONS

Table 1-3 lists the definitions of terms and abbreviations used in this instruction that are unique to Elsag Bailey.

Table 1-3. Glossary of Terms and Abbreviations

Term	Description
Configuration	The act of setting up equipment to accomplish specific functions or a list of parameters associated with such a setup.
Controlway	High speed, redundant, peer-to-peer communication link. Used to transfer information between intelligent modules within a process control unit.
Dipswitch	A dual in-line package that contains switches.
EWS	Engineering work station.
Executive Block	Fixed function block that determines overall module operating characteristics.
Function Block	The occurrence of a function code at a block address of a module.
Function Code	An algorithm which manipulates specific functions. These functions are linked together to form the control strategy.
I/O Expander Bus	Parallel communication bus between the master and I/O modules.
MFP	Multifunction processor module. A multi-loop controller with data acquisition and information processing capabilities.
MFT	Machine fault timer. Reset by the processor during normal operation. If not reset regularly, the MFT times out and the module stops.
MMU	Module mounting unit. A card cage that provides electrical and communication support for INFI 90 OPEN/ Network 90® modules.
Module Bus	Peer-to-peer communication link used to transfer information between intelligent modules within a process control unit.
Node	A point of interconnection to a network.

Table 1-3. Glossary of Terms and Abbreviations (continued)

Term	Description
PCU	Process control unit. A node on the plantwide communication network containing control and I/O modules.
SAC	Analog control station.
Termination Module	Provides input/output connection between plant equipment and the INFI 90 OPEN/Network 90 modules.
Termination Unit	Provides input/output connection between plant equipment and the INFI 90 OPEN/Network 90 modules.

SPECIFICATIONS

Refer to Table 1-4 for the specifications of the IMMFP12 Multi-Function Processor Module.

Table 1-4. Specifications

Property	Characteristic/Value
Microprocessor	32 bit processor (16 bit external bus) running at 16 MHz
Memory	
Total	512 kbytes ROM 512 kbytes RAM 256 kbytes NVRAM
Available	347,712 bytes RAM 194,752 bytes NVRAM
Power Requirements	+5 VDC @ 2 A; 10 W typical
Serial Ports	Two RS-232-C ports, or one RS-485 and one RS-232-C port all of which link signals at a rate of up to 19.2 kbaud.
Station Support	Sixty-four 40-kbaud serial stations (IISAC01) or eight 5-kbaud serial stations (NDCS03 or NDIS01).
Redundant Communication Link Rate and Type	1 Mbaud serial link.
Electromagnetic/Radio Frequency Interference	Values not available at this time. Keep cabinet doors closed. Do not use communication equipment any closer than 2 meters from the cabinet.
Programmability	C, BASIC, BATCH, ladder, function codes, and user-defined functions.
Dimensions	35.56 mm wide (1.40 in.) 177.80 mm high (7.00 in.) 298.45 mm long (11.75 in.)
Mounting	Occupies one slot in a standard INFI 90 OPEN module mounting unit.
Ambient Temperature	0° to 70°C (32° to 158°F)
Relative Humidity	5% to 95% up to 55°C (131°F)(noncondensing) 5% to 45% above 55°C (131°F)(noncondensing)
Atmospheric Pressure	Sea level to 3 km (1.86 mi)
Air Quality	Noncorrosive
Certification	CSA certified for use as process control equipment in an ordinary (non-hazardous) location. Factory Mutual approved for use in Class I, Division 2, hazardous locations.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.