

Highlights

The Harmony Rack Multifunction Processor (IMMFP11/12) is a multiple loop, analog, sequential, batch and advanced control processor. It provides information processing with advanced data acquisition features and can easily implement complex control strategies. The IMMFP11/12 controllers are fully compatible with the INFI 90[®] OPEN system in functionality, communications and packaging. The IMMFP12 has twice the memory capacity of the IMMFP11.

Harmony rack controllers receive process I/O from analog and digital I/O modules. The Expander Bus provides the communication link between the MFP and the I/O modules. These controllers communicate on the Controlway with other Harmony rack controllers, including Harmony bridge controller. The rack controllers communicate with other system nodes on the control network (Cnet) via the Harmony rack communication modules.

Multiple control languages are supported in the Harmony rack controllers, including function codes, C, Basic, Batch 90[™], and Ladder.

Specifications

Property	Characteristic/Value
Microprocessor	32-bit processor (16-bit external bus) running at 16 MHz
Memory IMMFP11 IMMFP12	256 kbytes ROM, 256 kbytes RAM, 64 kbytes NVRAM 512 kbytes ROM, 512 kbytes RAM, 256 kbytes NVRAM
Power requirements	+5 VDC at 2 A maximum
Power dissipation	10 W maximum
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 (Requires NTMP01 or NIMP01 termination devices for connection to these ports.)
Station support	Sixty-four 40-kbaud serial stations (IISAC01) or Eight 5-kbaud serial stations (NDCS03 or NDIS01)
Redundant communication link	1 Mbaud serial link
Programmability	Function codes, C, Basic, Batch 90, Ladder, 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.

Property	Characteristic/Value
Environment	
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	
Canadian Standards Association (CSA)	Certified for use as process control equipment in an ordinary (nonhazardous) location.
Factory Mutual (FM)	Approved for use in Class I, Division 2, hazardous locations.

TM Control^{IT} is a trademark of ABB.

TM Batch 90 is a trademark of ABB.

® INFI 90 is a registered trademark of ABB.

*For more information on the Control^{IT} suite of products , contact us at ControlIT@us.abb.com
For the latest information on ABB visit us on the World Wide Web at <http://www.abb.com>*



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