

BPC02

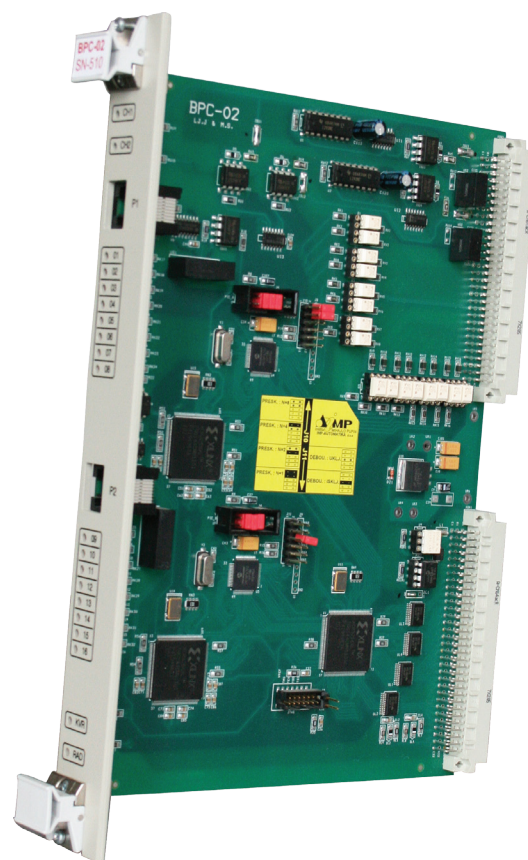
I/O module

Overview

- I/O module for Atlas Max-RTL[®] RTU/PLC
- Compatible with 3-wire inductive proximity switches, PNP type
- Maximum capacity: 12 modules in one 19" rack
- LED indications: input signal, fault state, acquisition in progress

Function description and application

Basic application of BPC02 I/O module is measurement of rotation speed of turbine in thermo and hydroelectric plants. Module processes digital input signal received from inductive proximity switch. Input signal frequency is proportional to speed of turbine rotation. Module calculates frequency and sends its value to CPU module of PLC device Atlas Max-RTL[®]. Digital outputs on module can be used for overspeed protection. Digital input signal can be buffered and sent to distance of up to 100 m. Module can also perform frequency meter function



Design

Double Eurocard: 233,4x160 mm. Front mask dimensions: 262x30mm

Interface

Number of inputs	2
Interface type	optocoupler
Galvanic isolation	2 kV

Technical specifications

Input signal voltage level	
• Nominal value	$V_s = 24VDC$
Input current	7 mA / 24VDC
Power supply	5VDC (from communication bus) 24VDC (buffer circuit and command voltage)
Input signal frequency	0 to 5kHz
Measurement accuracy	0.01%
Scan period	1 ms
Power consumption	130 mA @ 5V
Working temperature	0 to 50°C
Relative humidity	5 to 95%