



SYDOR intelligent Beam Position Monitor I/O controller (BPMio)

Sydor Instruments' intelligent Beam Position Monitor I/O controller (BPMio) is a full readout and control system designed to work with the Sydor Diamond Monitors. The module is capable of providing feedback on the X-ray beam position, the beam intensity as well as provides fast feedback control on peripheral beamline components.

PERFORMANCE PARAMETERS SYDOR intelligent Beam Position Monitor I/O controller (BPMio)

Readout	Internal electrometer module
Readout Channels	4
Current Measuring Range	10 nA to 250 mA
Gain Select	5 programmable gains: (10 nA – 1 μ A, 0.5 μ A – 10 μ A, 5 μ A – 100 μ A, 50 μ A – 2 mA, 1 mA – 250 mA)
Data Rate	378 ksamples/s (max)
Resolution Bits	20
Bias Voltage Output	-48 V to +48 V (internal) -48 V to +48 V (external)
Current Polarity	Unipolar
DATA COMMUNICATION AND CONNECTORS	
I/O Control Ports	1 Ethernet 4 DAC LEMO Outputs (0-10 VDC) *6 SFP *2 LVDS LEMO Input *2 LVDS LEMO Output
Control Interface	10/100/1000 Ethernet TCP/IP, UDP
Bias Output/ADC Clock Connector	SMA/LEMO
Electrometer Input/Bias Output Connectors	Triaxial
FEATURES	
X-Y Correction and Stabilization	Yes
I _o Stabilization	Yes
EPICS IOC	Yes
Time Stamping	Yes
OS	Linux
Status Indicators	4 LEDs
PHYSICAL DATA	
Enclosure	19" 2-U Rack Mount

*Available for custom applications
Specifications subject to change at any time