

Variable Speed Drives Compatible with Automatic Blower Balance Option

The following is a list of drives that D. R. Joseph, Inc. has successfully integrated to the IS-IBC1 system when using the Automatic Blower Balance feature. Other drives may also be compatible, but have not been tested by D. R. Joseph, Inc.

<u>Manufacturer</u>	<u>Model / Type</u>	<u>Notes</u>
ABB	ACS-300, ACS-400, ACS-500, ACS-600	Requires 499-ohm resistor to convert 0-20mA meter output to 0-10Vdc.
AC Tech	MC1000	
Allen-Bradley	1336, 1336 Plus, 1336F, PowerFlex 700	Requires an external 10Vdc supply for the MSR pot. DRJ can provide the power supply on combined systems.
Cutler-Hammer	AF93, AFM 10	
Danfoss	VLT 3500	Requires 499-ohm resistor to convert 0-20mA meter output to 0-10Vdc.
Eurotherm	584S, 584SV, 605C, 690+	
Lenze	MicroInverter LZ	
Magnetek *	GPD503, GPD506	Requires a trim pot on the 15Vdc terminal to trim 15Vdc to 10Vdc for the MSR pot.
Mitsubishi	FRA-500, FRE-500, FRF-500	Dynamic Braking Resistor is Recommended
Omron *	G5+, P5+	Requires a trim pot on the 15Vdc terminal to trim to 10Vdc for the MSR pot.
Reliance	GP2000, GV3000/SE	
Saftronics *	G2	1. Requires a trim pot on the 15Vdc terminal to trim 15Vdc to 10Vdc for the MSR pot. 2. Requires option card #J0GB-CO2 for 0-10Vdc frequency output to meter.
	G3+	Requires a trim pot on the 15Vdc terminal to trim to 10Vdc for the MSR pot.

	GP5, FP5, GP10	Requires a trim pot on the 15Vdc terminal to trim to 10Vdc for the MSR pot.
Siemens	MidiMaster, Micromaster	
Square-D	Altivar 58, 66	Requires 499 ohm resistor to convert 0-20mA meter output to 0-10Vdc.
Woods	WFC4000	
Yaskawa	GPD305, GPD506/P5, GPD515, P7	Requires a trim pot on the 15Vdc terminal to trim to 10Vdc for the MSR pot.

*Saftronics, Magnetek, some of the Omron drives (P5+), and PowerMaster are all the same drive. They are Yaskawa drives and each company brand labels them. The manuals and some parameters may be different, but they are largely interchangeable.

Minimum drive requirements to interface to DRJ ISIBC1 with ABB

- ✚ Accept a 0-10Vdc speed reference input.
- ✚ Provide a 10Vdc or greater reference voltage to supply the Master Speed Reference pot (or use external supply)
- ✚ Provide a 0-10Vdc or 0-20mA analog output proportional to speed/frequency
- ✚ Capable of 2-wire start/stop control
- ✚ 'Drive Running' contact output
- ✚ Adjustable Accel/Decel times up to 85 seconds on exhaust and 30 seconds on inlet blower
- ✚ 'Linear ramp' option
- ✚ 'Coast-to-stop' option