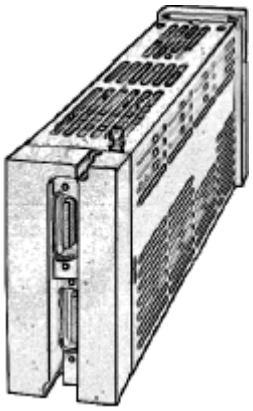
MOD 30 RetroPAK Controllers

- Replaces aging controllers in logical increments
- Combines the functionality of MOD 30 Controllers, Math Unit, SLU
- Fits same bezel & cutout
- Accepts MOD 30 termination cables
- Communicates via ICN with MOD 30, Local Control Panel and Communication Link
- High visibility display, easier to operate
- Front panel tuning
- Portable Memory Module option



“The Right Fit for Retrofit”

Specification Sheet
S-RETROPAK-MOD30
July 2008

I/O MODULES

	Positions	Power	
Analog Input - isolated			
Voltage (+/- 100mv, +/- 10V)	1	80mA	2001AZ10101B
Current (4-20mA)	1	80mA	2002AZ10101B
Current (4-20mA) with 2-wire transmitter power	*(Note 1)*	350mA	2012AZ10101B
RTD (2-wire, 1000 ohm nominal resistance)	1	80mA	2009AZ10220B
RTD (3-wire, 100 ohm nominal resistance)	2	80mA	2009AZ10130B
RTD for Cold Junction Compensation (1 per base instrument). Required if built-in input 1 is not used as tc+cjc and thermocouple inputs are used.	1	80mA	2009AZ10240B
Thermocouple (supports type B,E,J,K,N,R,S,T and calibrated)	1	80mA	2013AZ10101B
Analog Output - isolated			
Current (4-20mA / 0-20mA)	*(Note 1)*	350mA	2003AZ10101A
Digital Input - Isolated			
2.5 to 28V dc	1	12mA	2004AP10100A
4 to 16V dc	1	12mA	2004AP10110A
10 to 32V dc, 12 to 32V ac	1	12mA	2004AP10120A
35 to 60V ac/dc	1	12mA	2004AP10130A
90 to 140V ac/dc	1	12mA	2004AP10140A
180 to 280V ac/dc	1	12mA	2004AP10150A
Digital Output - Isolated			
5 to 60V dc	1	12mA	2005AP10100A
5 to 200V dc	1	12mA	2005AP10110A
12 to 140V ac, SPST, NO	1	12mA	2005AP10120A
24 to 280V ac, SPST, NO	1	12mA	2005AP10130A
24 to 280V ac, SPST, NC	1	12mA	2005AP10140A
Digital Input - Nonisolated			
2.2V to 24V dc (contains internal 5V supply for direct hardwire connection)	1	10mA	2006AZ10100A
Digital Output - Nonisolated			
25V, 50mA TTL (open collector switch supports 5V TTL)	1	20mA	2007AZ10100A
Mechanical Relay Output - isolated			
Dual SPST, NO/NO (2 outputs)	2	140mA	2011AZ10100A
Dual SPST, NC/NC (2 outputs)	2	140mA	2011AZ10110A
Dual SPST, NO/NC (2 outputs)	2	140mA	2011AZ10120A
Form C (1 output)	2	140mA	2011AZ10200A
Extended I/O Interface (see SS Remote-I/O for remote modules)			
Extended I/O Interface Module (one per Remote I/O Network; 2 max)	2	400mA	2020NZ10000B

Note 1: These active current modules use one position, however they require that one module space on each side be unused.

Communication Modules and Accessories on following page

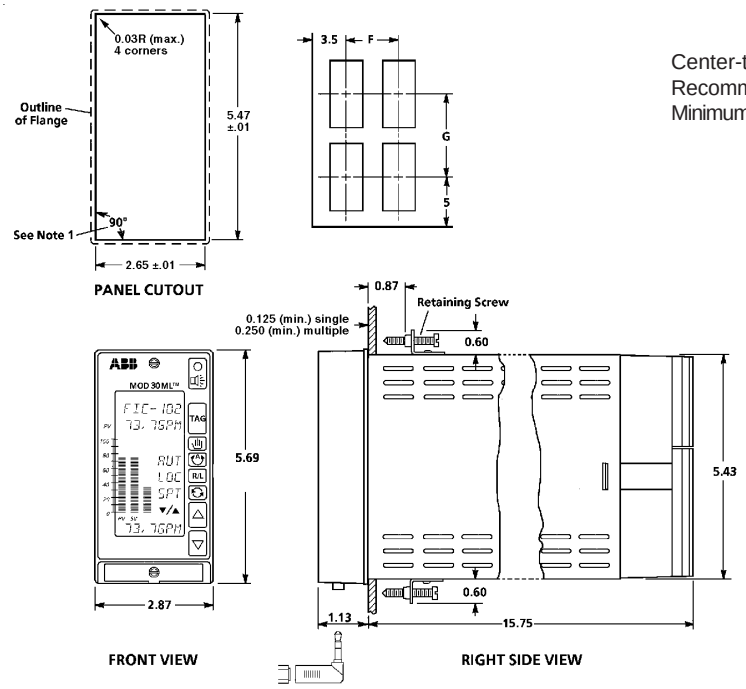
COMMUNICATION MODULES AND ACCESSORIES

Communication Modules (one per instrument in addition to built-in communication channel)			
Instrument Communications Network (ICN)*	2	300mA†	2030NZ10000B
Serial Communications for Modbus RTU:			
RS-232**	2	180mA	2033NZ10000A
RS-485, 4-wire**	2	180mA	2034NZ10000A
Accessories			
ICN Termination Assembly *(1 per ICN network)*			2030FZ00001A
Portable Memory Module (optional)			2010PZ10000A
Output Holder / Manual Loader (see S-MOD-1750N)			1750NZ10001A

* One ICN module is required in the MOD 30 Replacement instrument if the built-in communications port is used for RS-232 through the front panel.

** Provides pull-up/pull-down resistors for Modbus network, and address switch. Required when using MOD 30ML as master.

† 2030F terminator assembly adds 200mA for total ICN module load of 500mA to controller unit on which it is installed.



Center-to-Center Distance	F	G
Recommended	4	8
Minimum	3.5	7

Inches	mm	Inches	mm
0.6	15.2	5.43	137.9
0.87	22.1	5.47	138.9
1.13	28.7	5.69	144.5
2.69	68.3	7	177.8
2.87	72.9	8	203.2
3.5	88.9	15.75	400
4	101.6		

1.5 inch (38.1mm) clearance for optional communications jack.