

# TECHNICAL NOTE

#### Control Questions

When considering controls for your cleanroom, you should consider what options you might want. ENVIRCO offers two styles of controls based upon an open Modbus RTU protocol. Options include:

- » Plug and Play using an encoder-based control console called the ACC series
- » Touchscreen
- » Monochrome graphic display
- » Facility-specific
- » Field configurable
- » Animated PLC based
- » Animated PLC with pass through to PC
- » Building Management Control

#### Control System Selection

By addressing the following questions, we can help select the optimum control system for your application.

Number of Units	
Number of Rooms	
ECM (DC) Fans	
AC (PSC) Fans	

## What do you want to be able to control or monitor?

Control:	Communications:
	Interface with BMS-Building
ON/OFF	Management System
<ul> <li>Globally adjust all fans</li> <li>Individually control each fan</li> <li>Energy saving setback of each fan</li> <li>RPM motor feedback for motor failure (DC motors)</li> <li>RPM Motor feedback for filter loading (DC motors)</li> <li>Alarm</li> </ul>	<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>BacNet IP</li> <li>BacNet MSTP</li> <li>Ethernet</li> <li>Text message</li> <li>Email notification</li> <li>Analog 0 to 10 volts</li> <li>Alarm signal only</li> <li>Communicate directly from fans to BMS (only)?</li> <li>Communicate with Console and then pass through to BMS?</li> <li>Pass all data through to BMS or just an alarm?</li> <li>Interface to a PC?</li> <li>Interface with the Internet for remote viewing?</li> </ul>

\_\_\_\_ Interface via OPC server?

External I/O Interface Required.

- Occupancy Sensors
- \_\_\_\_\_ Room Particle Counter Interface
- \_\_\_\_\_ Room Pressure Monitoring
- \_\_\_\_\_ Temperature
- \_\_\_\_ Humidity \_\_\_\_ Lights



## TECHNICAL NOTES

### What do you want to be able to control or monitor? (con't)

View:

Encoder based console and review each fan individually (lowest cost)



ACC1-125



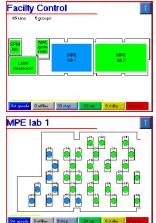
ACC1001 (Field Configurable)

You would like to have:

- Complete facility view of all rooms
  View of each room or group
- \_\_\_\_ Individual fan view



ACC7052







ACC7015 (Field Configurable)

ENVIRCO USA | 101 McNeill Road | Sanford, NC 27330 | Tel: 919.775.2201 | Toll Free: 800.884.0002 | Fax: 800.458.2379 | www.envirco.com | info@envirco.com

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