

UDC3000 TAC Tip

Easy Manual Tuning

Configuration

Press **set up** key until you see;
Upper Display = **SET**
Bottom Display = **CONTROL**
Press **FUNCTION** key until you see:
Bottom Display = **PBorGAIN**
press **▲** key until you see:
Upper Display = **PB PCT**
Bottom Display = **PBorGAIN**
Press **FUNCTION** key until you see:
Bottom Display = **MINorRPM**
press **▲** key until you see:
Upper Display = **MIN**
Bottom Display = **MINorRPM**

Set Initial Tuning Constants

Press **set up** key until you see;
Upper Display = **SET**
Bottom Display = **TUNING**
Press **FUNCTION** key until you see:
Bottom Display = **PROP BD**
press **▲** or **▼** key until you see:
Upper Display = **10**
Bottom Display = **PROP BD**
Press **FUNCTION** key until you see:
Bottom Display = **RATE MIN**
press **▲** or **▼** key until you see:
Upper Display = **.75**
Bottom Display = **RATE MIN**
Press **FUNCTION** key until you see:
Bottom Display = **RESET MIN**
press **▲** or **▼** key until you see:
Upper Display = **3.0**
Bottom Display = **RESET MIN**
Press **LOWER DISPLAY** key to exit configuration

Manual Tuning Procedure

Initial procedure

Press **set up** key until you see;

Upper Display = **SET**

Bottom Display = **TUNING**

Press **FUNCTION** key until you see:

Bottom Display = **PROP BD**

press **▲** or **▼** key until to double the present value: **10,20,40,80 ect.**

Upper Display = **(double previous value)**

Bottom Display = **PROP BD**

Press **FUNCTION** key to enter new value:

If process response is **better** continue this procedure.

If process response is **worse** change **PROP BD** between last to settings.

Example: If 40 is worse than 20 try 30

Try for the largest **PROP BD** that will keep the process tuned to your requirements.

The larger the **PROP BD** the more stable the process control.

If Initial procedure fails to tune process

Press **set up** key until you see;

Upper Display = **SET**

Bottom Display = **TUNING**

Press **FUNCTION** key until you see:

Bottom Display = **PROP BD**

press **▲** or **▼** key until you see:

Upper Display = **10**

Bottom Display = **PROP BD**

Press **FUNCTION** key until you see:

Bottom Display = RATE MIN

press **▲** or **▼** key until you see:

Upper Display = **0.0**

Bottom Display = **RATE MIN**

Repeat initial procedure with new rate constant (**0.0**)