# Technical Note 22
CoagSense
Pre-Installation Checklist

Pi are committed to ensuring that you get the best experience from your CoagSense. To ensure that the CoagSense is suitable to meet your coagulation control objectives we need the following information to get every installation right first time, every time. When you have completed the form please email it to your local sales organization or direct to the factory.

Contact Info

Name...

E-mail...

Mobile No..

Plant Name..

Town...

Country...

Date..
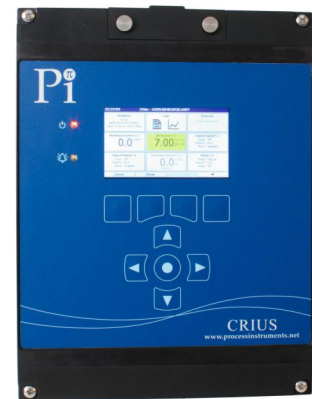
Application

1. Application type: Water Plant, In-plant Process, DAF, Laundry, Other (explain):

2. Batch Process:_____, Occasional Shutdowns:_____, or Continuous Online Process:_____.

3. Quality Water Data (please indicate units):

	Max	Min	Normal
Flow Rate	Max: _____	Min: _____	Normal: _____
TOC (Raw Water)	Max: _____	Min: _____	Normal: _____
UVA (Raw Water)	Max: _____	Min: _____	Normal: _____
UVA (Final Water)	Max: _____	Min: _____	Normal: _____
Turbidity (Raw Water)	Max: _____	Min: _____	Normal: _____
Turbidity (Settled Water)	Max: _____	Min: _____	Normal: _____
TDS (Raw Water)	Max: _____	Min: _____	Normal: _____
*Alkalinity (Raw Water)	Max: _____	Min: _____	Normal: _____
pH (Raw Water)	Max: _____	Min: _____	Normal: _____
*pH (Post Coagulant Addition)	Max: _____	Min: _____	Normal: _____
Coagulant (PPM)	Max: _____	Min: _____	Normal: _____

Coagulant   Type:_____

4. Raw water sample to be obtained from: open channel with submersible pump _____ pressurized line _____ gravity feed _____ other (explain): _____

5. Post coagulant sample to be obtained from: open channel with submersible pump _____ pressurized line _____ gravity feed _____ other (explain): _____

*MUST include

6. Is coagulant/flocculant being fed at a point that ensures thorough mixing with the stream before the post coagulant sample for CoagSense is taken?   Yes_____   No _____

7. Estimated (calculated) lag time from chemical feed point to sample take off point:

   Under Max. flow:_____ seconds, Under Min. flow: _____ seconds

8. Does raw water flow change widely (+/-30%), and/or frequently in a relatively short time (e.g. once per hour).

   Yes _____ No _____   If Yes, how often or quickly: _____

9. Is an open, atmospheric drain available at sensor location?   Yes _____   No _____

10. Is coagulant currently paced on raw water flow?   Yes _____   No _____

11. Which of the following instruments are already on site and able to provide an output for the CoagSense to use?

Raw Water	Settled Water	Final Water
Turbidity: ☐	Turbidity: ☐	Turbidity: ☐
pH: ☐	pH: ☐	UVA/UVT: ☐
UVA/UVT: ☐		

Tell us more

If plans include using the CoagSense for Auto-Control, then please answer the following questions:

1. Is it planned to pace chemical on both a raw water flow and CoagSense signal, or just the CoagSense signal alone?

   _____

2. Will the chemical feed control be performed by SCADA/PLC with a signal from the CoagSense or direct from the CoagSense?

   _____

3. Does chemical feed pump accept: _____ 4-20mA signal   _____ pulse?

Drawing

Please draw below (or attach) a line diagram showing raw water flow, all chemical feed points, mixer, possible sample points, settling basins, filters, etc. Something like this: