Technical Note 17

StreamerSense - Pre-Installation Checklist

Why complete this form?

Pi are committed to ensuring that you get the best experience from your StreamerSense. To ensure that the StreamerSense is suitable to meet your 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 Pi in the UK.

Plant Details

Name ....

Job Title ....

Mobile No ....

Plant Name ....

Town ....

Country ....

Telephone No ....

E-mail ....

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):

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:

*MUST include

4. Is chemical feed neat_____ or diluted_____ ? Is carrier water used?   Yes_____   No _____

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

6. How is mixing of coagulant accomplished?

7. Sample to be obtained from: open channel with submersible pump _____   pressurized line _____
   gravity feed _____ other (explain): _____

8. Estimated (calculated) lag time from chemical feed point to sample take off point:
   Max. flow: _____ Min. flow: _____

9. 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: _____

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

11. Is chemical currently paced on raw water flow?   Yes _____   No _____

12. Is SCM to be used for: _____   auto-control or _____   monitoring only?

Tell us more

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

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

2. Will the chemical feed control be performed by SCADA/PLC with a signal from the SCM analyzer or will an SCM with on-board PID control (SCM controller) be needed?
   SCADA/PLC Control - SCM monitor _____   SCM controller (On-board PID) _____

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

Drawing

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