

May 8, 2020

Pittsburgh Water and Sewer Authority
 Attn: Rob Herring, P.E. – Project Manager
 1200 Penn Ave
 Pittsburgh, PA 15222

RE: Residential Fire Suppression Systems and Sensus iPERL Headloss

Dear Mr. Herring:

The Sensus iPERL electromagnetic water meter features a straight through pipe design with no strainer or objects installed in line with the water flow. This design enabled the iPERL to achieve UL 327B listed approval in both 3/4" and 1" meter sizes.

Although the 3/4" and 1" iPERL meter's accuracies are warranted only within the listed operating ranges which has a maximum sustained rate of 35 and 55 gpm respectively, the meters can indeed accommodate the higher required flow rates as needed by Pittsburgh Water and Sewer Authority. As requested, the calculated pressure drop above warranted max flow is the following:

3/4" iPERL Flow Rate	Headloss
35 gpm	6.4 psi
40 gpm	8.0 psi
45 gpm	9.7 psi
50 gpm	11.6 psi
55 gpm	13.7 psi
60 gpm	15.9 psi

1" iPERL Flow Rate	Headloss
55 gpm	7.6 psi
60 gpm	8.9 psi
65 gpm	10.4 psi
70 gpm	11.9 psi
75 gpm	13.6 psi
80 gpm	15.4 psi

Sincerely,



Andrew Dudley
 Product Manager – Residential Water Metrology