

Design Type			
Selection Criteria	In-line	Manifold	Comments
Cost	-1	0	Manifold design likely to be more costly do to complexity of machined housing/manifold
Integration w/ other components	0	1	Manifold design allows for compact, easy integration with various other units
Aesthetics	0	1	A small, grouped package of components would be more appealing to the eye
Ease of Use	0	1	1 line-installable unit preferable to multiple plumbed components
Complexity(-1 = Too Complex)	0	-1	In-line units require simple, purchaseable components
Evolvability	0	0	
Repeatability	0	0	No advantage in either design
Allow for Manual Control	1	0	In-line components may be easier to implement with manual control valve
Durability	0	1	1 compact unit more robust than multiple connections
Components Easily Available	0	-1	Custom manifold block versus purchased in line units
Maintenance	0	0	
Accuracy	0	0	
Safety	0	0	
Sum + 's	1	4	
Sum 0's	11	7	
Sum -'s	-1	2	
Net Score	0	2	
Rank	2	1	
Data Transmission			
Selection Criteria	Wired	Wireless	
Cost	0	-1	
Integration w/ other components	1	0	
Aesthetics	-1	0	
Ease of Use	0	0	
Complexity(-1 = Too Complex)	1	-1	
Evolvability	0	1	
Risk of Signal Interference	1	-1	
Components Easily Available	1	0	
Maintenance	0	0	
Accuracy	1	1	
Safety	0	1	
Sum + 's	5.00	2.00	
Sum 0's	5.00	6.00	
Sum -'s	1.00	3.00	
Net Score	4.00	-1.00	
Rank	1	2	