Model Selection Guide

MODEL SELECTION: *Rheotherm* model code numbers start with the basic model selected for an application (e.g., 210). The rest of the number is a listing of the enclosure, display, transducer type, features, outputs, and other options selected. You may build a model code number from the chart below or simply complete the Flow Application Data sheet and submit it to the factory or your Intek representative. All model selections are subject to factory approval.

EXAMPLE: 210 - XDT - TU¼ (HC) (1000psi) - 4/20 - 24V-FM
1 2 3 4 5 6 7

1. Basic model
2. Enclosure / display
3. Transducer type / size
4. Transducer material
5. Temperature / pressure / fittings
6. Output
7. Additional options

1. BASIC MODEL	
Standard integral linear meter	210
Linear meter with remote electronics	210R
Flow switch – integral electronics	100CS
Flow switch – remote electronics	100FS
Flow switch/monitor	400
Nonlinear meter	100
Optional model linear meter	111D
Optional model linear meter, extended range	112

2. ENCLOSURE / DISPLAY COMBINATIONS	
Blind NEMA 4 enclosure	I
NEMA 4 with flow rate display	ID
NEMA 4 with totalizer	IT
NEMA 4 with flow rate and totalizer displays	IDT
If different enclosure is desired, replace "I" with one of the following designations:	
Laboratory	L
Explosion-proof – Class I Group B,C,D	X
Panel mount	PM
NEMA 4X (stainless steel)	I(SS)
No enclosure	MP

3. TRANSDUCER TYPE / SIZE	
TU straight flow tube (Fill in fractional tube size)	TU__
TUL looped flow tube (Fill in fractional tube size	TUL__
TUS self-draining (Fill in fractional tube size)	TUS__
Dual probe transducer with NPT fitting	NPT/2I
Dual probe transducer with flange fitting	BF/2I
Dual probe transducer for hot tap	PG/2I
Single probe transducers	NPT/I
Rheovec® (for turbulent air ducts)	RV

4. TRANSDUCER MATERIAL	
Stainless steel (316 – standard)	blank
Hastelloy C-276 (trademark of Haynes Technology)	(HC)
Monel (trademark of Inco Alloys International)	(MO)
Tantalum	(TA)
Titanium	(TI)
Electropolished 316L tubing	(UHP)
Other wetted material	specify
TU/TUL/TUS shell material	
PVC	blank
Stainless steel	(SS)

5. STREAM TEMPERATURE	
- 0°C to 60°C (32°F to 140°F)	blank
- Greater than 60°C (140°F)	specify
OPERATING PRESSURE	
- Low pressure	blank
- High pressure (≥1,000 psi)	(__psi)

END FITTINGS (for TU transducers)	
- Plain tube (use compression fittings)	blank
- ¼" O.D. tube stubs	¼E
- Flanged (size, rating, material)	(F_",_#,_)
- Other fittings (e.g. sanitary, NPT, VCR)	specify

6. OUTPUT OPTIONS	
0 to 5 Vdc output	0/5
0 to 10 Vdc output	0/10
4 to 20 mA output – isolated	4/20
4 to 20 mA output – non-isolated	4/20G
Pulse output – 5 Vdc frequency	P3
Pulse output – open collector	P2
Pulse output - 12 Vdc frequency	P1
Temperature – 0 to 10 Vdc	T0/10
Temperature – 4 to 20 mA	T4/20

7. ADDITIONAL OPTIONS	
One SPDT flow switch relay	S1
Two SPDT flow switch relays	S2
Intrinsically safe cable interface	
– Intek FM approved I.S. system	ISB
– R. Stahl I.S. barriers (PTB/CSA)	ISS
12 Vdc input power	12V
24 Vdc input power	24V
120 Vac input power (50/60 Hz)	120V
220 Vac input power (50/60 Hz)	220V
Multiple fluid calibrations (up to 4)	SW__
Axial installation – probe transducer	AX
Extended range	ER
Cleaned for high purity service	HPC
Acid passivation cleaning	PV
Class I, Div. 1, Grps BCD for Model 210-XDT	FM
Palm device for Model 210 (M-150)	PD
Time delay (for 100CS)	TD
Bi-directional flow meter (Model 213)	BI
Epoxy paint	EP
Steam jacket	SJ
Extra transducer cable (10 ft. standard)	specify

ACCESSORIES
Hot tap assembly – Model HTA-4"-1"
(High and low pressure options)

INTEK, INC.
751 Intek Way
Westerville, OH 43082
TEL: (614) 895-0301
FAX: (614) 895-0319
sales@intekflow.com
www.intekflow.com