

# Reference Information

## Hazardous Areas (Explosion Proofing)



### Design Parameters for Feeders in Hazardous Areas

CL	DIV	Environmental Conditions	GR	Type Hazard	Motors		Tach Generator	Junction Boxes	Load Cell		Wiring And Conduit		
					AC	DC			Digital	Analog	Flexibility Not Required	Flexibility Required	
I	1	Vapors Present Continuously, Intermittently Or Periodically Under Normal Conditions	A	Acetylene	TEFC or TENV With Type X Purge	TEFC or TENV With Type X Purge	Digital Pickup Connected Through Intrinsic Safe Barriers Or Armature ( Voltage) Feedback	Purged Enclosure (Use Type X Purge)	Enclosure With Type X Purge	Rated CL I DIV 1 Or Connected Through Intrinsic Safe Barriers	Threaded Rigid With Approved Fittings And Seals	Flexible Conduit Approved For CL I DIV 1 And Approved Fitting And Seals	
			B	Hydrogen									
			C	Ether									
			D	Gasolene									
	2	Flammable Environment Only Resulting From Accidental Failure Of Equipment		A	Acetylene	TEFC or TENV	TEFC or TENV With Type X Purge	Digital Pickup Connected Through Intrinsic Safe Barriers Or Armature (Voltage Feedback)	Purged Enclosure (Use Type X Purge)	Enclosure With Type X Purge	Rated CL I DIV 1 Or Connected Through Intrinsic Safe Barriers	Threaded Rigid With Approved Fittings And Seals	Hard Usage SO Cable With Approved Seals
				B	Hydrogen								
				C	Ether								
				D	Gasolene								
II	1	Combustible Dust Normally In Suspension	E	Metal Dust	TEFC or TENV With Type X Purge	TEFC or TENV With Type X Purge	Digital Pickup Connected Through Intrinsic Safe Barriers Or Armature (Voltage Feedback)	Purged Enclosure (Use Type X Purge)	Enclosure With Type X Purge	Rated CL II DIV 1 Or Connected Through Intrinsic Safe Barriers	Threaded Rigid With Approved Fittings	Hard Usage SO Cable With Approved Seals	
			F	Carbon Dust									
			G	Grain Dust									
	2	Combustible Dust Not Normally In Suspension But Dust Accumulation Can Occur		E	Metal Dust	TEFC or TENV	TEFC or TENV	Analog Tach Generator With TENV Enclosure	Dust Tight NEMA 9 or NEMA 12	Dust Tight Enclosure	Dust Tight Enclosure	Hard Usage SO Cable With Bushed Dust Tight Fittings	Hard Usage SO Cable With Bushed Dust Tight Fittings
				F	Carbon Dust								
				G	Grain Dust								