

MILLER ENERGY INC.

Expect a Higher Level of Service

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Air Monitor
Precision Airflow Measurement
An OMECON Brand

BERTHOLD
TECHNOLOGIES

K-PATENTS
PROCESS INSTRUMENTS

Seametrics

AMETEK
PMT **PG** * **USG**
U.S. Group

BROOKFIELD
AMETEK

Mid-West
Instrument

SMC
sierra
monitor

AquaMetric
by **WR** Water Analytics

CANTY
PROCESS TECHNOLOGY

NIAGARA
meters

SOR
MEASUREMENT AND CONTROL

AW-LAKE
COMPANY

Fox Thermal
Precision Mass Flow Measurement
An OMECON Brand

PR
electronics

TRICOR
Control Technology

azbil
Azbil North America, Inc.

Greyline
Precision Flow Measurement
An OMECON Brand

pyromation
beyond measure

Williamson
Where Wavelength Matters

Other Brands supported

PROCESS MEASUREMENT & CONTROL

Flow

Magnetic Flow Meters
Vortex Flow Meters
Coriolis Mass Flow Meters
Pitot Averaging Flow Meters
Strain Gauge Target Flow Meters
Positive Displacement Flow Meters
Ultrasonic Flow Meters
Turbine Flow Meters
Venturi Tubes / Orifice Plates
Paddle Wheel Flow Meters
Direct Reading Flow Gauges
Variable Area Rotameters
Open Channel Flow Meters
Flow Computers
Thermal Mass

Temperature

Thermocouples
RTD's
Thermowells
Temperature Transmitters
Temperature Controllers
Infrared Non-Contact Temperature Sensors
Temperature Gauges
Bimetallic Thermometers

Pressure

Pressure and DP Transmitters
Pressure Gauges
Pressure Switches
DP Gauges & Switches
Diaphragm Seals & Assemblies
Annular Isolation Rings
Pressure Transducers
Pressure Regulators
Pneumatic Controllers
I/P and P/I Transducers

Level

Radar Level Transmitters
Ultrasonic Level Transmitters
RF Admittance Level Transmitters
Magnetostrictive Level Transmitters
Submersible Level Transmitters
DP (Flanged) Level Transmitters
Nuclear Level Transmitters
RF Admittance Point Level Switches
Tuning Fork Level Switches
Ultrasonic Gap Switches
Float Switches
Conductivity Switches
Vision Systems
Level Indicating Gauges

Water Quality

pH / ORP
Conductivity (Contacting)
Conductivity (Inductive)
Dissolved Oxygen
Turbidity Analyzers

Speciality Measurement

Viscosity
Texture
Refractive Index
Powder Flow Tester
Density (Solids)
Density (Gas)
Moisture / Humidity
Electrical Meters
Power Monitors
Lightning Arresters
Portable & Benchtop Instruments
Particle Shape and Sizing
Sampling Systems

Gas Analysis

Combustion Oxygen / Humidity
Safety Gas Detection Systems
Safety Flame Detectors
Process Analyzer Systems
Process Gas Chromatographs
Tunable Diode Laser Spectrometers
Flare Gas Monitors

Data Acquisition & Control

Videographic (Paperless) Recorders
Strip Chart Recorders
Circular Chart Recorders
Data Acquisition Systems
Wireless Interface Solutions
Process Loop Controllers
Safety Instrumented Systems
Network Protocol Converters
Signal Conditioners
Fieldbus Systems
Fieldbus Instruments
Device Management Software
Intrinsically Safe Interfaces

Valves

Control Valves
Ball Valves
Segmented Ball Valves
Plug Valves
Butterfly Valves
Angle Body Disc Valves
Lined Valves
Sanitary Valves
Actuators & Positioners
Manifold Valves
Natural Gas Regulators
Dump Level Valves & Controllers
Flushing Rings

FOX & DOLE
TECHNICAL SALES

Please welcome Fox and Dole Technical Sales to the
Miller Energy family

www.millerenergy.com

Unit Conversion Sheet

Length Units							
mm	cm	m	km	in	ft	yd	mi
1	0.1	0.001	0.000001	0.03937	0.003281	0.001094	6.21e-07
10	1	0.01	0.00001	0.393701	0.032808	0.010936	0.000006
1000	100	1	0.001	39.37008	3.28084	1.093613	0.000621
1000000	100000	1000	1	39370.08	3280.84	1093.613	0.621371
25.4	2.54	0.0254	0.000025	1	0.083333	0.027778	0.000016
304.8	30.48	0.3048	0.000305	12	1	0.333333	0.000189
914.4	91.44	0.9144	0.000914	36	3	1	0.000568
1609344	160934.4	1609.344	1.609344	63360	5280	1760	1

Area Units						
mm ²	cm ²	m ²	in ²	ft ²	yd ²	
1	0.01	0.000001	0.00155	0.000011	0.000001	
100	1	0.0001	0.155	0.001078	0.00012	
1000000	10000	1	1550.003	10.76391	1.19599	
645.16	6.4516	0.000645	1	0.000944	0.000772	
92903	929.0304	0.092903	144	1	0.111111	
836127	8361.274	0.836127	1296	9	1	

Volume Units						
cm ³	m ³	ltr	in ³	ft ³	US gal	US brl
1	0.000001	0.001	0.061024	0.000035	0.000264	0.000006
1000000	1	1000	61024	35	264	6.29
1000	0.001	1	61	0.035	0.264201	0.00629
16.4	0.000016	0.016387	1	0.000579	0.004329	0.000103
28317	0.028317	28.31685	1728	1	7.481333	0.178127
3785	0.003785	3.79	231	0.13	1	0.02381
158970	0.15897	159	9701	6	42	1

Mass Units			
g	kg	lb	oz
1	0.001	0.002205	0.035273
1000	1	2.204586	35.27337
453.6	0.4536	1	16
28	0.02835	0.0625	1

Density Units			
g/ml	kg/m ³	lb/ft ³	lb/in ³
1	1000	62.42197	0.036127
0.001	1	0.062422	0.000036
0.01602	16.02	1	0.000579
27.68	27680	1727.84	1

Volumetric Liquid Flow Units						
L/sec	L/min	M ³ /hr	ft ³ /min	ft ³ /hr	gal/min	US brl/d
1	60	3.6	2.119093	127.1197	15.85037	543.4783
0.016666	1	0.06	0.035317	2.118577	0.264162	9.057609
0.277778	16.6667	1	0.588637	35.31102	4.40288	150.9661
0.4719	28.31513	1.69884	1	60	7.479791	256.4674
0.007867	0.472015	0.02832	0.01667	1	0.124689	4.275326
0.06309	3.785551	0.227124	0.133694	8.019983	1	34.28804
0.00184	0.110404	0.006624	0.003899	0.2339	0.029165	1

Temperature Conversion Formulas	
Celsius (°C)	(°F - 32) x 5/9
	(K - 273.15)
Fahrenheit (°F)	(°C x 9/5) + 32
	(1.8 x K) - 459.67
Kelvin (K)	(°C + 273.15)
	(°F + 459.67) + 1.8

Volumetric Gas Flow Units		
Nm ³ /hr	scfh	scfm
1	35.31073	0.588582
0.02832	1	0.016669
1.699	59.99294	1

Mass Flow Units			
kg/h	lb/hour	kg/s	t/h
1	2.204586	0.000278	0.001
0.4536	1	0.000126	0.000454
3600	7936.508	1	3.6
1000	2204.586	0.277778	1

Torque Units			
Nm	kgfm	ftlb	inlb
1	0.101972	0.737561	8.850732
9.80665	1	7.233003	86.79603
1.35582	0.138255	1	12
0.112985	0.011521	0.083333	1

High Pressure Units						
bar	psi	kPa	MPa	kgf/cm ²	mm Hg	atm
1	14.50326	100	0.1	1.01968	750.0188	0.987167
0.06895	1	6.895	0.006895	0.070307	51.71379	0.068065
0.01	0.1450	1	0.001	0.01020	7.5002	0.00987
10	145.03	1000	1	10.197	7500.2	9.8717
0.9807	14.22335	98.07	0.09807	1	735.5434	0.968115
0.001333	0.019337	0.13333	0.000133	0.00136	1	0.001316
1.013	14.69181	101.3	0.1013	1.032936	759.769	1

Dynamic Viscosity Units		
cp	poise	lb/(ft·s)
1	0.01	0.000672
100	1	0.067197
1488.16	14.8816	1

Low Pressure Units				
ftH ₂ O	cmHg	inHg	inH ₂ O	Pa
1	2.242311	0.882753	12.000	2989
0.445969	1	0.39368	5.351265	1333
1.13282	2.540135	1	13.59293	3386
0.083339	0.186872	0.073568	1	249.1
0.000335	0.00075	0.000295	0.004014	1

Kinematic Viscosity Units			
cs	St	ft ² /s	m ² /s
1	0.01	0.000011	0.000001
100	1	0.001076	0.0001
92903	929.03	1	0.092903
1000000	10000	10.76392	1

Speed Units					
m/s	m/min	km/h	ft/s	ft/min	mi/h
1	59.988	3.599712	3.28084	196.8504	2.237136
0.01667	1	0.060007	0.054692	3.281496	0.037293
0.2778	16.66467	1	0.911417	54.68504	0.621477
0.3048	18.28434	1.097192	1	60	0.681879
0.00508	0.304739	0.018287	0.016667	1	0.011365
0.447	26.81464	1.609071	1.466535	87.99213	1