

Gas Miser® Demand Regulator: The Intelligent Regulator

- Nickel-plated brass and polished aluminium.
- Gas flow from 0.1 lpm to 3.0 lpm.
- Designed for use with any MSA Model RP Calibration Cylinder except chlorine and ammonia*
- Automatic ON/OFF valve that releases gas only on demand.
- Shuts off automatically.
- Can stay connected to the cylinder where it remains in a ready state.
- Cost-efficient.
- Supplied with calibration tubing and special fitting.

PART NO:	Description	PART NO:	Description
467895	Gas Miser® Model RP .25 lpm*	459949	Gas Miser® Model 7HP 0.25 lpm
478358	Gas Miser® Model RP Cylinder 1.5 lpm	459948	Gas Miser® Model 7HP 1.5 lpm
PART NO:	Description	PART NO:	Description
10034391	Gas Miser® Model RP, Chlorine and Ammonia	477149	Gas Miser® Check Kit, Model RP, with 0.25 lpm regulator - does not include calibration gas
710289	Gas Miser® Model BD-20, with CGA 590 fitting		

* A Gas Miser® Regulator for chlorine and ammonia is available for Model RP cylinders - P/N 10034391.

* Can be used with chlorine and ammonia; replaces P/N 809945.



Gas Miser® Model RP



Gas Miser® Model BD-20

Portable Instruments

Calibration Gas

MSA offers a complete line of calibration gas cylinders to calibrate all instruments. The gas mixture in calibration gas cylinders is certified and prepared gravimetrically, using NIST traceable weights. The lot number and nominal value of the gas constituents in volume, percent by mass, PPM, or volume is specified on the cylinder.



# Gases	Gas Mix	Part No. Econocal (34L)	Part No. Econocal (58L)	Part No. Econocal (116L)	Recommended Cal Gas for:
1	100 PPM Isobutylene	10048279	-	494450	PID
1	8% Butane in N ₂ (6L)	*10075802	-	-	25% vol Butane IR
1	50% vol Methane in N ₂	-	10075804	-	100% vol Methane IR
1	0.6% vol Propane (100L)	-	*10028034	-	LEL Propane IR sensor
1	50% vol Propane N ₂	*10029475	-	-	100% vol Propane IR
1	10 ppm NO ₂ in Air	711068	808977	10150599	NO ₂ sensor
1	10 ppm SO ₂ in Air	711070	808978	10150600	SO ₂ sensor
1	25 ppm NH ₃ in N ₂	711078	814866	10150611	NH ₃ sensor
1	10 ppm Cl ₂ in N ₂	711066	806740	10150612	Cl ₂ sensor
1	2 ppm Cl ₂ in N ₂	*711082	-	-	ClO ₂
1	10 ppm HCN in N ₂	711072	809351	10150614	HCN sensor
1	0.5 ppm PH ₃ in N ₂	711088	710533	10150615	PH ₃ sensor
3	1.45% CH ₄ , 15.0% O ₂ , 20 ppm H ₂ S	*10048790	*10048788	-	-
3	2.50% CH ₄ , 15.0% O ₂ , 20 ppm H ₂ S	10048888	10048889	-	-
3	1.45% CH ₄ , 15.0% O ₂ , 60 ppm CO	10048789	478191	-	-
3	2.50% CH ₄ , 15.0% O ₂ , 60 ppm CO	*10049056	-	-	-
4	1.45% CH ₄ , 15.0% O ₂ , 60 ppm CO, 10 ppm NO ₂	10058036	10058034	10150597	-
4	1.45% CH ₄ , 15.0% O ₂ , 60 ppm CO, 20 ppm H ₂ S	10048280	10045035	10150595	Standard Quad Gas
4	2.50% CH ₄ , 15.0% O ₂ , 60 ppm CO, 20 ppm H ₂ S	10048981	10048890	10150596	-
4	2.50% CH ₄ , 15.0% O ₂ , 60 ppm CO, 10 ppm NO ₂	10058172	10058171	10150598	-
5	1.45% CH ₄ , 15.0% O ₂ , 60 ppm CO, 20 ppm H ₂ S, 2.5% CO ₂	-	10103262	10150606	Standard Quad Gas + 5% or 10% CO ₂ IR
5	1.45% CH ₄ , 15.0% O ₂ , 60 ppm CO, 20 ppm H ₂ S, 10 ppm SO ₂	10098855	10117738	-	SO ₂ sensor

Calibration Gases are now RFID enabled to suit Galaxy GX2.

*Not RFID enabled.

FGFD Calibration Gas

PART NUMBER	Chemical Name	Concentration	Description
10044014*	NH ₃	300 ppm	Ammonia in Nitrogen
10028076*	NH ₃	25 ppm	Ammonia in Nitrogen
479265	CO ₂	2.50%	Carbon Dioxide in Air
479266	CO ₂	2000 ppm	Carbon Dioxide in Air
806735	CO ₂	100 ppm	Carbon Dioxide in Nitrogen
807386	CO ₂	1.50%	Carbon Dioxide in Nitrogen
807387	CO ₂	15%	Carbon Dioxide in Nitrogen
801041	CO ₂ , CH ₄	1300 ppm, 2.5%	Carbon Dioxide, Methane in Nitrogen
801042	CO ₂ , CH ₄	2000 ppm, 2.5%	Carbon Dioxide, Methane in Nitrogen
801043	CO ₂ , CH ₄	3300 ppm, 2.5%	Carbon Dioxide, Methane in Nitrogen
801044	CO ₂ , CH ₄	6600 ppm, 2.5%	Carbon Dioxide, Methane in Nitrogen
801045	CO ₂ , CH ₄	1.3%, 2.5%	Carbon Dioxide, Methane in Nitrogen
801046	CO ₂ , CH ₄	3.3%, 2.5%	Carbon Dioxide, Methane in Nitrogen
801047	CO ₂ , CH ₄	6.6%, 2.5%	Carbon Dioxide, Methane in Nitrogen
801048	CO ₂ , CH ₄	33.3%, 2.5%	Carbon Dioxide, Methane in Nitrogen
10028050	CO	50 ppm	Carbon Monoxide in Air
710882	CO	60 ppm	Carbon Monoxide in Air
10028052	CO	100 ppm	Carbon Monoxide in Air
10028054	CO	200 ppm	Carbon Monoxide in Air
10027938	CO	300 ppm	Carbon Monoxide in Air
10028048	CO	400 ppm	Carbon Monoxide in Air
10028056	CO, CH ₄	60 ppm CO, 2.5% CH ₄	Carbon Monoxide, Methane, 15%, O ₂ in Nitrogen
10010162	CO, CH ₄ , O ₂	300 ppm CO, 1.45% CH ₄ , 15% O ₂	Carbon Monoxide, Methane, Oxygen in Nitrogen
804770*	CO, CH ₄ , O ₂ , H ₂ S	300 ppm, 1.45%, 15%, 10 ppm	Carbon Monoxide, Methane, Oxygen, H ₂ S in N ₂
710331*	CL ₂	2 ppm	Chlorine in Nitrogen (used for ClO ₂ Cal too)
10028066*+	CL ₂	10 ppm	Chlorine in Nitrogen
10028046	H ₂	0.80%	Hydrogen in Air
10022386	H ₂	500 ppm	Hydrogen in Nitrogen
10028078*	HCL	40 ppm	Hydrogen Chloride in Nitrogen
10053747*	HCL	10 ppm	Hydrogen Chloride in Nitrogen
10028072*	HCN	10 ppm	Hydrogen in Cyanide in Nitrogen
710414*	H ₂ S	5 ppm	Hydrogen Sulfide in Nitrogen
10028060*+	H ₂ S	10 ppm	Hydrogen Sulfide in Nitrogen
10028064*	H ₂ S	15 ppm	Hydrogen Sulfide in Nitrogen
10028062~	H ₂ S	40 ppm	Hydrogen Sulfide in Nitrogen
10089547	H ₂ S	250 ppm	Hydrogen Sulfide in Nitrogen
10028038*+	Isobutylene	100 ppm	Isobutylene in Air
10028032~	CH ₄	2.50%	Methane in Air
491041^	CH ₄	2.50%	Methane in Air
801049	CH ₄	6.60%	Methane in Nitrogen
10028022	CH ₄ , O ₂	1.45%, 15%	Methane, Oxygen in Nitrogen
10028020	CH ₄ , O ₂ , CO	1.45%, 15%, 60 ppm	Methane, Oxygen, Carbon Monoxide in Nitrogen
10028074*	NO	50 ppm	Nitric Oxide in Nitrogen