KIMRAY BK3000 FLOW MONITOR

INTRODUCTION

The BK3000 Series flow meter from Kimray provides you with a flexible, durable, easy-to-use platform for your flow metering applications. The BK3000 Series makes it easy to monitor flow, with a crisp dot-matrix display capable of simultaneous display of flow rate and flow total. With a wide variety of enclosure options for both liquid and gas applications, from intrinsically safe and explosion-proof (flameproof) ratings, to an innovative solar-powered model, there's a BK3000 to suit your needs. Intrinsically safe models are housed in a UV-resistant, NEMA 4X-rated enclosure available in direct, panel, pipe, DIN-rail or swivel mounts.

OPERATION

The BK3000 Series was designed with smart management of unit power in mind. All units feature extremely low power consumption in normal operating conditions and are both 4-20mA loop and battery-powered*. You'll never have to worry about losing power, and the onboard battery will last up to 8 years.

The BK3000 Series also provides you with powerful operating features. Multi-point linearization tables are supported in all models, providing increased reading accuracy. Accessing the powerful advanced programming mode is as easy as pressing a single button. The standard communications interface is 4-20mA and total pulse, while the advanced interface adds two control alarms and Modbus RTU over RS485.

Kimray's trusted flow metering technology is now available with more options and features than ever before with the BK3000 Series.

*Solar version available as battery-powered monitor only

APPLICATIONS

The BK3000 monitor is suitable for application in a wide variety of metering needs. A few of the more common industries are:

Secondary oil recovery applications

Remediation and reclamation

Fracture/refracture

Coal bed methane

Regulatory compliance and environmental accountability

Industrial chemicals

Aggressive chemical processing applications

Liquid batching and water cooling



EXPLOSION-PROOF ENCLOSURE

KEY DESIGN FEATURES

- Flexible power options include solar, battery, and 4-20mA loop power
- Robust alarm parameters provide faster warning when something changes in the process or pipeline
- Multiple enclosure options ensure there's a BK3000 model for your operation
- Updated display provides more information at your fingertips
- Advanced connectivity options allow you to connect meters to your network for remote monitoring and process automation capabilities

PRODUCT DATA SHEET

Kimray BK3000 Data Sheet.indd 1 4/19/16 1:26 PM

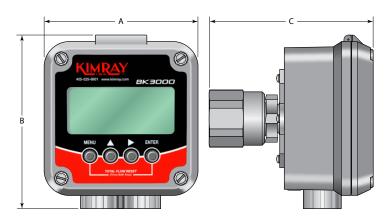
SPECIFICATIONS

		Simultaneously shows	Rate and Total			
		5 x 7 Dot Matrix LCD, STN Fluid				
Display	Common	6 Digit Rate, 0.5 inch (12.7 mm) numeric			
		7 Digit Total, 0.5 inch				
		Engineering Unit Labels 0.34 in. (8.6 mm)				
		6 Digit Rate, 0.37 inch				
	Explosion Proof	7 Digit Total, 0.37 inch	(13 mm) numeric			
		Engineering Unit Labels 0.24 inch (6.1 mm)				
	Annunciators	0 0	·	 IIIIII), RS485 Communicatio	ons (COM)	
				explosion proof includes iso		power and other I/O
Power	3 6V DC lithium D Cell gives up to 6 years of service life					
	Battery	Note: Modbus enabled at baud rate of 19,200 or higher without loop power reduces battery life to 1 year				
	Loop	420 mA, two wire, 25 mA limit, reverse polarity protected, 7V DC loop loss				
	0.1. 5	Internal battery (3.6V DC Nicd) provides up to 30 days of power after 68 hours exposure of the integrated photo				
	Solar Battery	cell to direct sunlight.			•	
		Frequency Range		13500 Hz		
		Frequency Measureme	ent Accuracy	±0.1%		
Innute	Magnetic Pickup	Over Voltage Protection		28V DC		
Inputs		Trigger Sensitivity	**		n / l ovu) / loolootod	by airquit board jumparl
		,		30 mVp-p (High) or 60 mVp		by circuit board jumper)
	Amplified Pulse	Direct connection to amplified signal (pre-amp output from sensor)				
	Analog 420 mA	420 mA, two-wire current loop				
		25 mA current limit				
		-	1 -	(LSD) increment of the tota	lizer	
		Pulse Type	Opto-isolated (Iso	o) open collector transistor		
		(selected by circuit	Non-isolated ope	n droin EET		
	Totalizing Pulse	board jumper)	INUIT-ISUIALEU UPE	II UI dIII FE I		
	Totalizing Falso	Maximum Voltage		28V DC		
Output		Maximum Current Cap	acity	100 mA		
		Maximum Output Fred	luency	16 Hz		
		Pulse Width		30 mSec fixed		
		Туре	Open collector tra	ansistor		
		туре	Adjustable flow r	ate with programmable dea	d band and phase.	
	Status Alarms	Maximum Voltage		28V DC		
	Status Alarms	iviaxiiiiuiii vuitaye		20V DC		
	Status Alarms	Maximum Current		100 mA		
	Status Alarms				m minimum, 10 k oh	ım maximum
Modbus Digital Communications	Modbus RTU over RS485	Maximum Current Pullup Resistor 7, 127 addressable units		100 mA External required: 2.2 k ohr 9600 baud, long integer and	d single precision IEI	ım maximum EE754 formats; retrieve: flow ne on Solar and Explosion Proof
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Communications Data Configuration and Protection Certifications Entity Parameters Measurement Accuracy Response Time (Damping) Environmental Limits Materials and Enclosure	Modbus RTU over RS488 rate, job totalizer, grand Two four-digit user select totalizer reset functions Safety EMC Base Base & Solar Base & Solar Base & Solar Common Accuracy Common Response Time Common Limits Polycarbonate, stainless	Maximum Current Pullup Resistor 5, 127 addressable unit: totalizer, alarm status a stable passwords; level Class I Division 1, Gro CSA C22.2 No. 153 Explosion: Class I Divi UL 1203 and CSA C22 ATEX II 2 G Ex d IIC T4 Complies with Directiv 2004/108/EC 420 mA Loop: Vmax Pulse Output: Vmax = 5 RS485: Vmax = 10V Di Turbine Input: Voc = 2. 0.05% 1100 seconds respondations of the compliance of the complete of the complet	and battery level; wone password enal ups C, D; Class II, D ups C, D; Class II, D ups C, 2 No. 30 Gb and ATEX II D Eve 94/9/EC. X = 28V DC 28V DC V DC C 5V C c c c c c c c c c c c c c c c c c c	100 mA External required: 2.2 k ohi 9600 baud, long integer and rite: reset job totalizer, rese oles job total reset only, leve ivision 1 Groups E, F, G; Clas D; Class II, Division 1, Group ix tb IIIC T125 °C Db Imax = 26 mA Imax = 100 mA Imax = 5 mA Imax = 60 mA Isc = 1.8 mA ge input, user adjustable nidity, non-condensing; ner, acrylic; NEMA 4X/IP 66 minum, buna seal, NEMA 43	d single precision IEIt t grand totalizer.(No el two password ena ess III for US and Car ps E, F, G; Class III for US and Car class E, F, G; Class III for US and Car ps E, F, G; Class III for US	EE754 formats; retrieve: flow ne on Solar and Explosion Proof ables all configuration and nada. Complies with UL 913 and or US and Canada Complies with Li = 0 mH
Communications Data Configuration and Protection Certifications Entity Parameters Measurement Accuracy Response Time (Damping) Environmental Limits Materials and Enclosure Ratings	Modbus RTU over RS488 rate, job totalizer, grand Two four-digit user select totalizer reset functions Safety EMC Base Base & Solar Base & Solar Base & Solar Common Accuracy Common Response Time Common Limits Polycarbonate, stainless Type 4X (IP-66) EXPLOSIO	Maximum Current Pullup Resistor 5, 127 addressable unit: totalizer, alarm status a stable passwords; level Class I Division 1, Gro CSA C22.2 No. 153 Explosion: Class I Divi UL 1203 and CSA C22 ATEX II 2 G Ex d IIC T4 Complies with Directiv 2004/108/EC 420 mA Loop: Vmax Pulse Output: Vmax = 5 RS485: Vmax = 10V Di Turbine Input: Voc = 2. 0.05% 1100 seconds respondation of the compliance of the complex of the compl	and battery level; wone password enal ups C, D; Class II, D ups C, D; Class II, D ups C, 2 No. 30 Gb and ATEX II D Eve 94/9/EC. C = 28V DC 28V DC V DC C SV Onse to a step chan o° C); 090% hunermoplastic elastor, epoxy-coated, alure Barrels (42 gallon), Cubic Feet, Million	100 mA External required: 2.2 k ohi 9600 baud, long integer and rite: reset job totalizer, rese oles job total reset only, leve ivision 1 Groups E, F, G; Clas D; Class II, Division 1, Group ix tb IIIC T125 °C Db Imax = 26 mA Imax = 100 mA Imax = 5 mA Imax = 60 mA Isc = 1.8 mA ge input, user adjustable nidity, non-condensing; ner, acrylic; NEMA 4X/IP 66 minum, buna seal, NEMA 43	d single precision IEI t grand totalizer.(No el two password ena ss III for US and Car ps E, F, G; Class III for Ci = 0.5 µF Ci = 0 µF Co = 1.5 µF	EE754 formats; retrieve: flow ne on Solar and Explosion Proof ables all configuration and nada. Complies with UL 913 and or US and Canada Complies with UL 913 and UL = 0 mH Li = 0 mH Li = 0 mH Li = 0 mH Li = 0 mH Survivel mount; NEMA/UL/CSA
Communications Data Configuration and Protection Certifications Entity Parameters Measurement Accuracy Response Time (Damping) Environmental Limits Materials and Enclosure	Modbus RTU over RS488 rate, job totalizer, grand Two four-digit user select totalizer reset functions Safety EMC Base Base & Solar Base & Solar Base & Solar Common Accuracy Common Response Time Common Limits Polycarbonate, stainless Type 4X (IP-66) EXPLOSIO Liquid Gas	Maximum Current Pullup Resistor 5, 127 addressable units totalizer, alarm status a stable passwords; level Class I Division 1, Gro CSA C22.2 No. 153 Explosion: Class I Divi UL 1203 and CSA C22 ATEX II 2 G Ex d IIC T4 Complies with Directiv 2004/108/EC 420 mA Loop: Vmax Pulse Output: Vmax = 5 RS485: Vmax = 10V Di Turbine Input: Voc = 2. 0.05% 1100 seconds responder -22158° F (-307 steel, polyurethane, the DN PROOF: Copper free US Gallons, Liters, Oil Liters, Acre Feet Cubic Feet, Thousand Actual Cubic Meters, I	and battery level; wone password enal ups C, D; Class II, D ups C, D; Class II, D ups C, 2 No. 30 Gb and ATEX II D Eve 94/9/EC. C = 28V DC 28V DC V DC C C 5V Onse to a step chan o° C); 090% hunermoplastic elastor, epoxy-coated, alure Barrels (42 gallon), Cubic Feet, Million Liters	100 mA External required: 2.2 k ohr 9600 baud, long integer and rite: reset job totalizer, reser illes job total reset only, leve ivision 1 Groups E, F, G; Class D; Class II, Division 1, Group ix tb IIIC T125 °C Db Imax = 26 mA Imax = 100 mA Imax = 5 mA Imax = 60 mA Isc = 1.8 mA ge input, user adjustable midity, non-condensing; ner, acrylic; NEMA 4X/IP 66 minum, buna seal, NEMA 4) Liquid Barrels (31.5 gallon),	d single precision IEI t grand totalizer.(No el two password ena ss III for US and Car ps E, F, G; Class III for Ci = 0.5 µF Ci = 0 µF Co = 1.5 µF	EE754 formats; retrieve: flow ne on Solar and Explosion Proof ables all configuration and nada. Complies with UL 913 and or US and Canada Complies with UL 913 and UL = 0 mH Li = 0 mH Li = 0 mH Li = 0 mH Li = 0 mH Survivel mount; NEMA/UL/CSA
Communications Data Configuration and Protection Certifications Entity Parameters Measurement Accuracy Response Time (Damping) Environmental Limits Materials and Enclosure Ratings	Modbus RTU over RS488 rate, job totalizer, grand Two four-digit user select totalizer reset functions Safety EMC Base Base & Solar Base & Solar Base & Solar Common Accuracy Common Response Time Common Limits Polycarbonate, stainless Type 4X (IP-66) EXPLOSIG	Maximum Current Pullup Resistor 5, 127 addressable unit: totalizer, alarm status a stable passwords; level Class I Division 1, Gro CSA C22.2 No. 153 Explosion: Class I Divi UL 1203 and CSA C22 ATEX II 2 G Ex d IIC T4 Complies with Directiv 2004/108/EC 420 mA Loop: Vmax Pulse Output: Vmax = 5 RS485: Vmax = 10V Di Turbine Input: Voc = 2. 0.05% 1100 seconds respondation of the compliance of the complex of the compl	and battery level; wone password enal ups C, D; Class II, D ups C, D; Class II, D ups C, 2 No. 30 Gb and ATEX II D Eve 94/9/EC. C = 28V DC 28V DC V DC C DO	100 mA External required: 2.2 k ohr 9600 baud, long integer and rite: reset job totalizer, reser illes job total reset only, leve ivision 1 Groups E, F, G; Class D; Class II, Division 1, Group ix tb IIIC T125 °C Db Imax = 26 mA Imax = 100 mA Imax = 5 mA Imax = 60 mA Isc = 1.8 mA ge input, user adjustable midity, non-condensing; ner, acrylic; NEMA 4X/IP 66 minum, buna seal, NEMA 4) Liquid Barrels (31.5 gallon),	d single precision IEI t grand totalizer.(No el two password ena ss III for US and Car ps E, F, G; Class III for Ci = 0.5 µF Ci = 0 µF Co = 1.5 µF	EE754 formats; retrieve: flow ne on Solar and Explosion Proof ables all configuration and nada. Complies with UL 913 and or US and Canada Complies with UL 913 and UL = 0 mH Li = 0 mH Li = 0 mH Li = 0 mH Li = 0 mH Survivel mount; NEMA/UL/CSA

Kimray BK3000 Data Sheet.indd 2 4/19/16 1:26 PM

DIMENSIONS

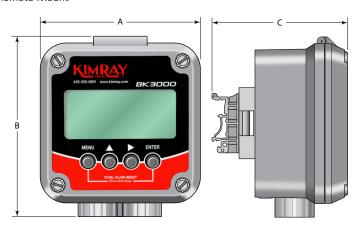
Meter Mount



Meter Mount

А	4.50 in. (114.3 mm)
В	5.08 in. (129.0 mm)
С	4.78 in. (121.4 mm)

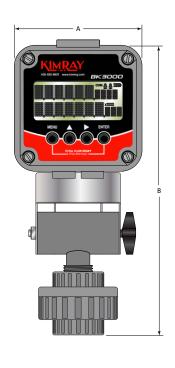
Remote Mount

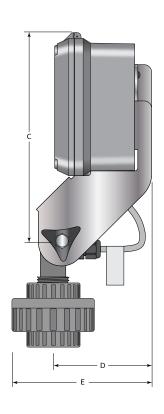


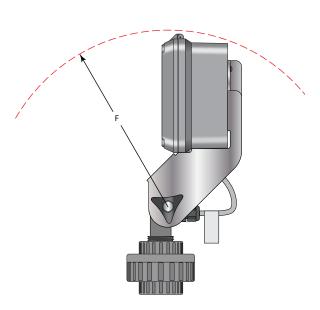
Remote Mount

А	4.50 in. (114.3 mm)
В	5.08 in. (129.0 mm)
С	3.80 in. (96.5 mm)

Swivel Mount







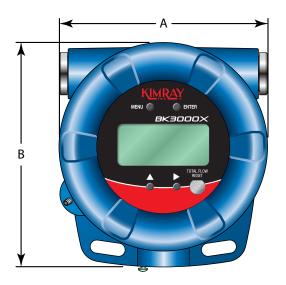
Swivel Mount

А	4.50 in. (114.3 mm)
В	10.9 in. (276.9 mm)
С	6.90 in. (175.4 mm)
D	3.21 in. (81.5 mm)
Е	4.25 in. (107.9 mm)
F	7.00 in. (177.8 mm)

Kimray BK3000 Data Sheet.indd 3 4/19/16 1:26 PM

DIMENSIONS

Explosion Proof





Explosion Proof

А	5.25 in. (133.4 mm)
В	5.65 in. (143.5 mm)
С	4.86 in. (123.4 mm)

ORDER CODE	DESCRIPTION
KSB30AM-CS	KSB BK3000 Advance Meter Mount
KSB30AR-CS	KSB BK3000 Advance Remote Mount
KSB30AS-CS	KSB BK3000 Advance Swivel Mount
KSB30BM-CS	Monitor BK3000 Base BP MM
KSB30BR-CS	KSB BK3000 Base Remote Mount
KSB30BS-CS	KSB BK3000 Base Swivel Mount
KSB30SM-CS	KSB BK3000 Solar Meter Mount
KSB30SR-CS	KSB BK3000 Solar Remote Mount
KSB30SS-CS	KSB BK3000 Solar Swivel Mount
KSB30XR-CS	KSB BK3000 Base Exp Remote Mount
KSB30YR-CS	Monitor BK3000 ADV XP RM
KSB30ZRCS	Monitor BK3000 ADV BP RM XP



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