

Magna Sygg



Series 100

Weather Proof Detector

- Base
- Battery Pack
- Mechanical Flag
- NO/NC Relay
- 24 VDC Power
- Satellite Base
- 12 VDC



Series 200

Weather Proof & Explosion Proof Detector

- Base
- Test Light
- NO/NC Relay
- Portable Mount
- LED Light
- Reset Button
- Battery Pack
- Permanent Mount
- 24 VDC Power

Description

The **MAGNA-SYGG** from S.U.N. Engineering, Inc. is truly a non-intrusive pipeline pig detector. Simple and rugged, it can be strapped to the surface of a pipe or it can be used as a portable pig passage indicator. You do not have to shut down the pipeline and wait for an expensive crew to install special fittings - the **MAGNA-SYGG** pig detector is ready to go to work. **MAGNA-SYGG Series 100** pig detectors feature rugged weatherproof construction. The **Series 200** pig detectors have explosion proof, UL Listed housings. The detector can be powered by its self-contained battery or by on-site 24 VDC. The pig detectors can be

used to actuate a range of devices from simple manual reset flags to Supervisor Control and Data Acquisition (SCADA) systems.

MAGNA-SYGG operates by reacting to changes in magnetic field strength (changes in magnetic flux density). A passing pig, which has been properly fitted with a suitable magnet, will induce a current within the detector's base. Upon detection of the magnetic field, the pig detector then activates a NO (Normally Open) or NC (Normally Closed) Relay, that has a 7 second reset delay. Contacts are rated 1/4 A at 24 VDC.

MAGNA-SYGG detectors can be used with any of S.U.N.'s pipeline pigging products: Super Pig, Super Cast Pig, Optima Cash Pig, Tuff Cast Pig, Super Mandrel Pig, or Super Sphere, that have been equipped with S.U.N. Engineering's unique, flexible magnet arrangement. The Magna-Sygg pipeline pig detector has been successfully tested and used on 4" thru 48" pipelines.

Our special magnets can also be conveniently installed in poly foam pigs when required. For more information contact S.U.N. Engineering, Inc. directly or one of its authorized domestic or international distributors.

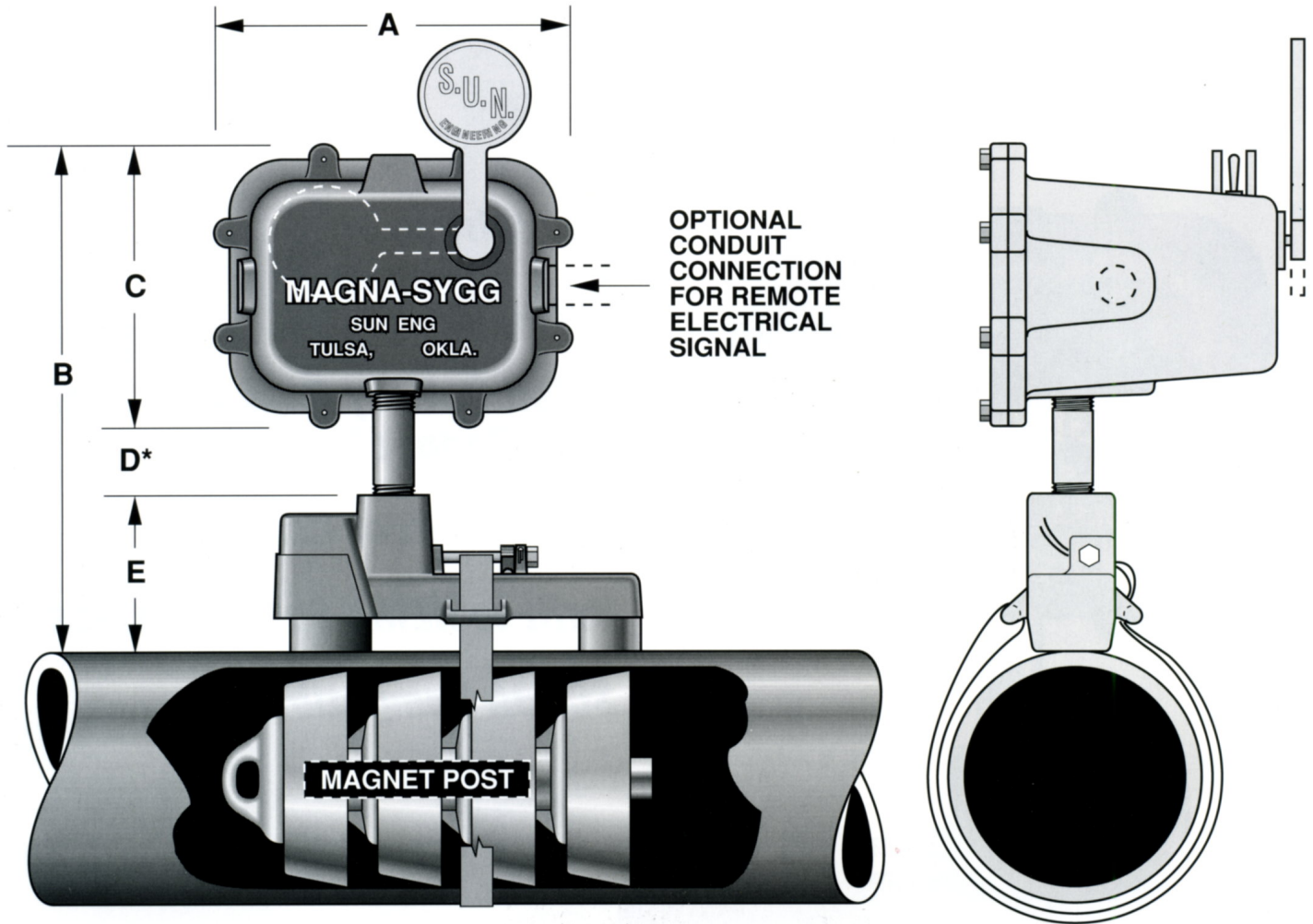


MagnaSygg Model 101-20K General Specification Data Sheet

Operating Pressure	N/A Non-Intrusive Unit
Operating Temperature	-40C to 85 C
Pipe Insulation Thickness	80 MM Maximum
Minimum Velocity of Pig	.5 m/s
Maximum Velocity of Pig	55 m/s
Model Number	MDS-101
Type	Non-Intrusive Unit
Enclosure Material	Aluminum
Enclosure Rating	N/A Non-Intrusive Unit
Power	12 Vdc Battery Pack, 12 Vdc, 24 Vdc
Contact Configuration	DPDT-Dual Coil Latching
Local Signal Device	Flag-Manual Reset
Tag or ID Plate	Available on customer request
Power Consumption	5 Watts
Installation Bands	Provided to fit customer pipe specs
Contact Rating	1 A @ 30 VDC, 5 mA @ 125 VAC

MagnaSygg Model 201-20K General Specification Data Sheet

Operating Pressure	N/A Non-Intrusive Unit
Operating Temperature	-40C to 85 C
Pipe Insulation Thickness	80 MM Maximum
Minimum Velocity of Pig	.5 m/s
Maximum Velocity of Pig	55 m/s
Model Number	MDS-201
Type	Non-Intrusive Unit
Enclosure Material	Copper Free Aluminum
Enclosure Rating	Eex d IIC KEMA NO. 03ATEX2460U
Haz. Area Class.	Class I, Groups B, C, D Class II, Groups E,F,G ClassIII
Cable Entry	2X 3/4" NPT Standard or 2X M20
Ingress Protection	IP 66
Power	24 Vdc
Contact Configuration	DPDT-Dual Coil Latching
Local Signal Device	Red LED Manual Reset
Tag or ID Plate	Available on customer request
Power Consumption	5 Watts
Installation Bands	Provided to fit customer pipe specs
Contact Rating	1 A @ 30 VDC, 5 mA @ 125 VAC



S.U.N. MAGNET CARTRIDGE SPECIFICATIONS

ITEM	SIZE IN.	PIPE DIAMETERS	SOLID POST PIGS			HOLLOW POST PIGS				MULTI-SIZE PIGS
			.25"	.5"	.75"	.75"	1"	1.50"	—	
A	8"	PIPE DIAMETERS								To select the correct size magnet cartridge for multi-size pigs, select the magnet size that corresponds to the largest pipe diameter or cup size on the chart.
B	11.5"		2"	6"	12"	16"	24"	28"	30" and above, Call for Technical Support.	
C	6"		Thru 4"	Thru 10"	Thru 14"	Thru 22"	Thru 26"	Thru 36"		
D	*									
E	4.375"									
NET WGT.	15 LBS.									
*D - 3" Std. Nipple. Longer pipe lengths can be used.			NOTE: The MAGNA-SYGG Detector used in conjunction with a S.U.N. Magnet Cartridge has been extensively tested on standard pipe wall sizes. If the MAGNA SYGG Detector will be used on heavy wall pipe, multi-size lines, or with a metal body cleaning pig, call the factory for additional information.							