

# Sludge Interface Detector

SID-20200



## USING THE SID-20200

- Press POWER button to activate display
- Lower probe to just contact tank bottom
- Place cable on COUNTER ROLLER
- Press ZERO button to reset display value
- Raise probe until INTERFACE lamp illuminates
- Note PROBE TRAVEL distance



## IMPORTANT

- Store the probe on the case handle hook, while carrying the unit.
- Probe stored on hook prolongs the life of the cable and probe.
- Wrap cable loosely on cable rack to prolong cable.

The NEW SID-20200 replaces the SID-10200 with upgrades that include:

- Side mounted counter roller that measures probe travel
- Digital display that is visible at night
- Switchable Inch or millimeter display units
- Auto sleep preserves batteries
- Easy clean faceplate with tactile buttons
- Light weight and ultra-simple to use



## TOOL FAMILIARITY

- POWER button activates unit
- ZERO button resets travel value
- SENS button toggles probe sensitivity
- HORN button enables horn

PROBE TRAVEL updates when cable passes across roller

INTERFACE lamp illuminates when probe sensor obstructed

HORN sounds when enabled and probe sensor obstructed

SENS display indicates current sensitivity setting

LOW BATT displays when battery change required

The displayed SENS value indicates the probe sensitivity setting.

The SENS button cycles LOW, MED and HIGH sensitivity settings.

LOW sensitivity ignores relatively small solids, but detects large solids.

HIGH sensitivity detects relatively small and large solids.

When solids detected, the INTERFACE lamp illuminates and the horn sounds.



## ACCURACY AND EASE OF USE TAKEN TO A NEW LEVEL!

## SLUDGE INTERFACE DETECTOR SID-20200 SPECIFICATIONS

HANDHELD UNIT	
DIMENSIONS	6"WX12"LX4.5"H (152mmW X 305mmL X 114mmH)
WEIGHT	1.5 lbs (680 g)
COLOR	YELLOW
FACEPLATE	1/8" (3.175mm) ALUMINUM
MOISTURE	IP66 WEATHERPROOF
TEMPERATURE	-5°F TO 158°F (-20° TO 70°C)
BATTERY STANDARD	3 X AAA CELLS (STANDARD ALKALINE)
BATTERY LIFE (TYPICAL)	3 MONTHS
POWER	ON/OFF
HORN	ON/OFF
SENSITIVITY	LOW, MEDIUM, HIGH
INDICATOR VISUAL	RED LED
INDICATOR AUDIBLE	HORN
INDICATOR BATTERY	"LOW BATT" DISPLAY
CALIBRATION	FACTORY SEALED (NO CAL RECAL REQUIRED)
PROBE	
MODEL	RP-20203-N N=LENGTH
MOISTURE	IP68
TEMPERATURE	15°F TO 140°F (-9° TO 60°C)
MATERIAL	STAINLESS STEEL
TECHNOLOGY	IREM Emitter/DETECTOR
SENSOR GAP	0.78" (20MM)
LENSES	POLYCARBONATE CLEAR
RANGE MIN	100-2000 mg/l (varies)
RANGE MAX	100-10000 mg/l (varies)
DIMENSIONS	2.5"WX3.5"LX.75"H (64mmW X 89mmL X 19mmH)
WEIGHT	1 lb (450 g)
COLOR	SILVER
CABLE	
MOISTURE	IP68
TEMPERATURE	15°F TO 140°F (-9° TO 60°C)
LENGTH	20 TO 50FT (6.1M TO 15M)
REPLACEMENT PARTS	
CABLE ASSY WITH PROBE	RP-20200-N WHERE N = LENGTH

### QUICK CHECK

Press POWER button.  
Press HORN to button to enable.  
Place your finger over a probe sensor len.  
The INTERFACE lamp illuminates and horn sounds.  
The horn can be switched-off without affecting unit operation.

### BATTERY REPLACEMENT

Batteries are located inside the case head.  
Remove the case faceplate four screws.  
Remove the faceplate from the case and leave wire attached.  
Slide the black battery pack out of the case holder.  
Remove battery pack cover.  
Replace all three AAA batteries with new alkaline batteries.  
Slide the black battery pack into the case holder.  
Install case faceplate with original screws snug tight.

### SENSOR ADJUSTMENT

SENS "LOW" - Detects large solids only  
SENS "MED" - Detects intermediate and larger solids  
SENS "HIGH" - Detects all solids

### FINE TUNING SLUDGE DETECTION

When you've established a baseline sensitivity for a tank, you can fine-tune by increasing and decreasing the sensitivity above your baseline.

At sensitivities higher than your baseline, you can detect the ragged edge on top of the sludge blanket.

Sludge blankets rarely have a well defined interface with the supernatant. Experience with the **SENSOR ADJ** will allow the keen operator to measure the ragged edge of the sludge blanket. It is not uncommon in a dynamic environment such as a secondary clarifier to identify several feet of gradual density change on top of the sludge blanket.

### CABLE REPLACEMENT

The cable and probe are one assembly and can be replaced in the field.  
Contact Raven for replacement parts and probe assemblies.

DESIGNED AND MANUFACTURED IN USA BY  
Raven Environmental Products, Inc.  
St. Louis, MO 63122 USA  
800-545-6953  
ravenep.com