

# 1107 Splice Sensor Unit



The 1107 Splice Sensor Unit (SSU) is a field coded device placed in splice enclosures or other outside plant equipment (above/below grade installations) that requires moisture ingress or security monitoring. Once the SSU sensors are installed within the outside plant they become an integral part of the overall outside plant monitoring system. When input leads of the SSU sensor are shorted, the sensor will become active and draw power from the Cable Monitoring System that is resident at the Central Office. A unique three digit data code will be transmitted back to Central Office via the metallic conductor of the fiber optic cable (cable armor, trace wire or copper pair). The three digit code is then decoded by the Cable Monitoring System and cross referenced to a database whereby an alarm report is automatically sent to an alarm or maintenance center.

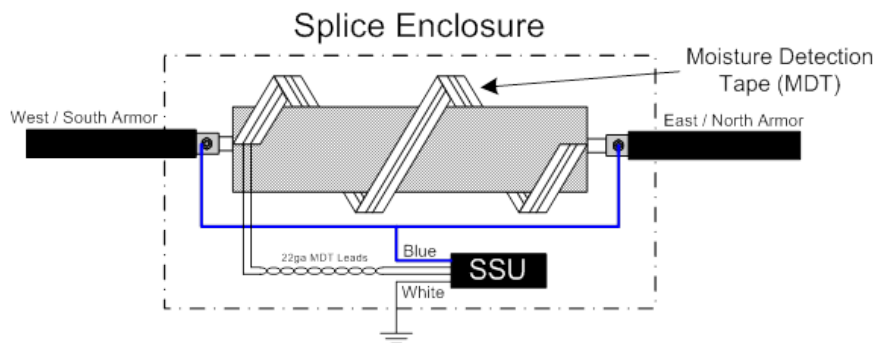
## Features

- Field programmable codes (001 to 799)
- Field programmable baud rate settings (3, 10 and 32)
- Re-programmable with new code or baud rate if relocated or incorrectly programmed
- Compatible with cable and fault locator tones
- Input leads can be attached to MDT or Security switches (n/o contacts)
- High reliability including heavy duty surge protection
- Completely encapsulated for operation under severe environmental conditions

# Specifications

| ITEM                              | QUANTITY/SPECIFICATION                                     | NOTES   |
|-----------------------------------|--|---|
| <b>Protection</b>                 |  |   |
| AC Voltage Rating<br>(Continuous) | 240 VAC 60 Hz @ 25C  |   |
| DC Breakdown Voltage              | 335 – 505v @ 100 v/sec                                     |   |
| Impulse Breakdown                 | 725v (Typical) at 100 v/μsec<br>1000v (Max) at 1000 v/μsec |   |
| Impulse Current Rating            | 40,000 A<br>20,000 A<br>1,000 A                            | 8/20μs, > 1 operation<br>8/20μs, > 10 operations<br>10/1000μs, > 400 operations |
| <b>Physical</b>                   |  |   |
| Dimensions                        | 3.5" x 1" x .75"<br>(8.9 cm x 2.5 cm x 1.9 cm)             |   |
| Weight                            | 0.25 lbs<br>(0.11 kg)                                      |   |
| <b>Environmental</b>              |  |   |
| Operating Temperature Range       | -50°C to +85°C<br>-58°F to +185°F                          |   |
| <b>Model Number(s)</b>            | 1107 C<br>1107 B<br>2060 MDT                               | Cable Armor/Tracewire<br>Copper Pair<br>Moisture Detection Tape                 |

# Typical Application



FIELD PROGRAMMABLE CODES (001 TO 799)

FIELD PROGRAMMABLE BAUD RATE SETTINGS (3, 10 AND 32)

RE-PROGRAMMABLE WITH NEW CODE OR BAUD RATE IF RELOCATED OR INCORRECTLY PROGRAMMED

COMPATIBLE WITH CABLE AND FAULT LOCATOR TONES

INPUT LEADS CAN BE ATTACHED TO MDT OR SECURITY SWITCHES (N/O CONTACTS)

HIGH RELIABILITY INCLUDING HEAVY DUTY SURGE PROTECTION

COMPLETELY ENCAPSULATED FOR OPERATION UNDER SEVERE ENVIRONMENTAL CONDITIONS

For more information on any of our products or services, please visit us on the web at: [www.norscan.com](http://www.norscan.com)

10 TERRACON PLACE  
WINNIPEG, MB R2J4G7  
P: 204.233.9138  
F: 204.233.9188  
SALES@NORSCAN.COM  
WWW.NORSCAN.COM

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

**norscan**  
Instruments Ltd.