INTELLITROL™

Scully's Intellitrol System

is the most advanced terminal overfill prevention and ground verification system available today. Intellitrol is the culmination of over 30 years experience in electronic overfill prevention control.

Intellitrol is a state of the art microprocessor based system that provides:

- Overfill prevention, ground verification and vehicle identification in one compact state of the art explosion-proof enclosure.

- Scully Dynacheck® automatic and continuous self-checking circuitry.

- Automatic detection of two-wire optic/thermistor or five-wire optic vehicle sensors.

- Monitoring of up to 8 two-wire and 15 five-wire vehicle sensors.

- Complete visual diagnostic display of overfill sensors' status. Will not permit loading under any fault or wet sensor condition.

- Advanced optical bypass feature eliminates unauthorized system bypass.

- Complete compatibility with Scully Intellicheck® and Load-Anywhere® on-board systems and Scully's industry standard on-board systems, overfill prevention sensors or compatible signals from truck overfill prevention systems conforming to industry standards.[1]

- Easy connection to vehicles with rugged high impact industry standard plug and cable units.

1. Per API Recommended Practice No. RP-1004 or European Draft Standard EN 296007.

STANDARD FEATURES

OVERFILL PREVENTION

- Automatic detection of two-wire optic/thermistor or five-wire optic vehicle sensors.

- Monitors up to 8 two-wire and 15 five-wire vehicle sensors.

- Maximum safety with Dynacheck automatic and continuous self-checking circuitry.

- Signals for automatic shut-off of product flow in less than a half-second of overfill/fault detection.

- Redundant main output relays and continuous monitoring of relay contacts for fail-safe relay operation.

DYNACHECK® SAFETY

- Dynacheck uses pulsed signals to continuously check the entire system.

- The controller, wiring, connections and sensors are checked for faults 30 times per second.

- If a sensor comes in contact with liquid, or in the event of a system fault, the pulsed signals cease, and the controller automatically signals for immediate shutdown of the loading operation. Shutdown is accomplished by controlling valve or pump controls.

COMPLETE DIAGNOSTICS AND COMMUNICATION

- Prominent red and green main status LED indicators indicate permissive, non-permissive and bypass conditions.

- Individual wet sensor detection by compartment and indication of sensor and wiring faults.*

- Communicates with Scully's Intelliview™ Microsoft Windows® based software or your terminal automation system. Refer to Scully's Intelliview Software literature GA 528.

OPTIONAL FEATURES

VEHICLE GROUND VERIFICATION

- Incorporates self-checking ground verification with a single connection via the overfill prevention plug and cable.

- No need to purchase a separate grounding controller.

- Prevents and shuts down loading if a proper bond for static discharge is not detected.

- May be configured for use with a Scully Ground Bolt mounted to the vehicle chassis; or for resistive ground detection.

VEHICLE IDENTIFICATION

- Automatically reads the unique vehicle identification number of the Scully vehicle mounted I.D. module when the plug is connected to the vehicle.

- Communicates the vehicle identification number to the terminal's PC, loading controller or terminal automation system.

- Prevents loading if the vehicle fails to meet the terminal's authorization requirements.

- By comparing the unique vehicle identification number to the terminal automation system's pre-programmed database, the terminal may automatically verify information such as: vapor tightness certification, contract and insurance status, the number of compartments and other vehicle information.

- Eliminates the time and expense of manual documentation review and inspection.

* Diagnostic ability varies depending upon the type of sensor.

ORDERING INFORMATION

Model Designations

FM & CSA Approved = **IC** }
BASEEFA/CENELEC Approved = **ICC** } **-**

Prefixes **Suffixes**

O Overfill Prevention **G** Ground Verification **V** Vehicle Identification

Control Units	Model No.	Part No.
Intellitrol Overfill Prevention Only Unit (FM & CSA approvals)	IC-O	08907*
Intellitrol Overfill Prevention and Ground Verification (FM & CSA Approvals)	IC-OG	08908*
Intellitrol Overfill Prevention, Ground Verification and V.I.P. (FM & CSA approvals)	IC-OGV	08909*
Intellitrol Overfill Prevention Only Unit (BASEEFA/CENELEC)	ICC-O	08912*
Intellitrol Overfill Prevention and Ground Verification (BASEEFA/CENELEC)	ICC-OG	08913*

* For a diagnostic display panel in a language other than English add - "S" for Spanish, "F" for French, "I" for Italian, "D" for Danish or "G" for German
   eg: 08907S is for the Intellitrol unit with Spanish label.

System Accessories	Part No.
Security Bypass Authorizer	08939
Scully Intelliview Windows based software	08951
Scully Advanced Programmers Interface software	08952
Sculcon SC-6A with Green Poly 2-Pin Plug and 30' (9m) Coiled Cable (API 2-wire Optic/Thermistor Standard Interface)	08156
Sculcon SC-6W with Blue Poly 3-Pin Plug and 30' (9m) Coiled Cable (API 5-wire Optic Standard Interface)	08159
Sculcon SC-8OB with European 8B style Black Poly Plug and 6 meter straight cable (European Draft Std. 296007)	08958
Sculcon SC-8B with European 8B style Green Poly Plug and 6 meter straight cable	08959
Sculcon SC-0B with European 8B style Blue Poly Plug and 9 meter coiled cable	08957
Poly Plug and Cable, Green 6A Style, 2 Pin with 30' (9m) coiled cable	21818
Poly Plug and Cable, Green 8A Style, 2 Pin with 30' (9m) coiled cable	31092
Poly Plug and Cable, Blue 6W Style, 3 Pin with 30' (9m) coiled cable	21831
Poly Plug and Cable, Black 8B European Style with 6 meter straight cable	22482
Poly Plug and Cable, Black 8OB European Style with 6 meter straight cable	22484
Poly Plug and Cable, Blue OB European Style with 9 meter coiled cable	22483
10 Conductor European Type-A cable with 1.0mm² (18 AWG) individually screened (shielded) conductors (for connection between the Intellitrol and Sculcon Junction Box) - Europe	27326

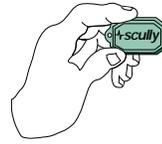| Replacement Parts (Also see the exploded view Intellitrol Replacement Parts Sheet #4516)	Part No.
Corrosion Inhibitor (One year life)	40268
O-Ring, Cover Seal	31340
Replacement Control Module, Overfill only, FM & CSA	08979O
Replacement Control Module, Overfill and Grounding, FM & CSA	08979OG
Replacement Control Module, Overfill, Grounding, and Vehicle Identification	08979OGV
Replacement Control Module, Overfill only, BASEEFA/CENELEC	08983O
Replacement Control Module, Overfill and Grounding, BASEEFA/CENELEC	08983OG
Cover Bolt, M8 x 1.25 x 25 mm long	50005
Mains Fuse (F1), 1A, Hi-Interrupt	26373
Contact Fuse (F5, F8), 5A, Hi-Interrupt	26372
Real Time Clock Backup Battery (FM & CSA Models Only)	26921
Replacement Lens Assembly (w/ 6 mounting screws)	08980
Replacement Display PCB Assembly (w/ backing plate)	08981
Display Cable Feed-through Assembly	08982
Lens Mounting Screw, 8-32 x 3/4 Hex Socket Head Cap Screw	50080
Cover Hinge Retaining Ring	54039
Text Mask, (English), Overfill & Grounding Options	32085*
Text Mask, (English), Overfill, Grounding and Vehicle I.D. Options	32086*

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ACCESSORIES

INTELLIVIEW WINDOWS BASED SOFTWARE

- Provides remote monitoring and control of Intellitrol units at liquid distribution terminals.

- Displays an animated on-screen icon of each control unit at the loading lane.

- Provides real time details of status and operation.

- Logs loading lane activities chronologically.

- Creates, stores, and manages customer and vehicle databases associated with the operation of the vehicle I.D. feature.

- Includes the ability to enter up to eight date sensitive database fields for each company and vehicle in the database.
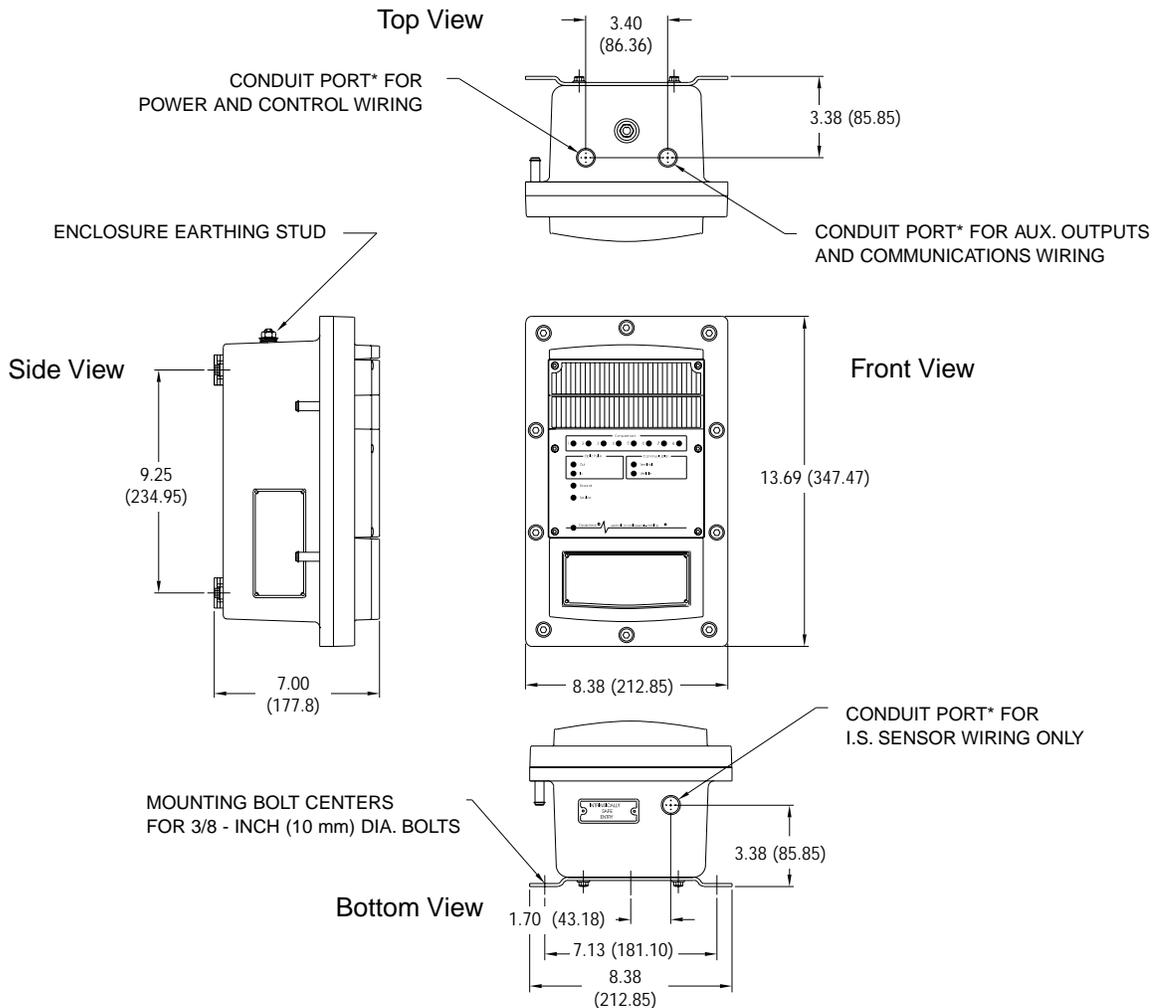
SECURITY BYPASS AUTHORIZER

- Allows the terminal management to temporarily bypass the Intellitrol to allow a vehicle to load.

- Compact unit, similar in size to a hand-held automobile alarm remote.

- Communicates optically to the Intellitrol unit. Simply hold the Bypass Authorizer up to the optical port on the right side of the Intellitrol's diagnostic display panel.

- Features a unique serial number which the Intellitrol must be programmed to accept.

DIMENSIONS

Dimensions shown in inches with millimeters in parentheses.

Top View
3.40 (86.36)
CONDUIT PORT* FOR POWER AND CONTROL WIRING
3.38 (85.85)
CONDUIT PORT* FOR AUX. OUTPUTS AND COMMUNICATIONS WIRING

ENCLOSURE EARTHING STUD

Side View
9.25 (234.95)
7.00 (177.8)

Front View
13.69 (347.47)
8.38 (212.85)

CONDUIT PORT* FOR I.S. SENSOR WIRING ONLY

MOUNTING BOLT CENTERS FOR 3/8 - INCH (10 mm) DIA. BOLTS

Bottom View
3.38 (85.85)
1.70 (43.18)
7.13 (181.10)
8.38 (212.85)

*The "IC" models feature 3/4" - 14 NPT conduit entries. The "ICC" models feature M25 x 1.5 metric conduit entries.

scully

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