OIL COP FLUID MANAGEMENT SYSTEM COMPONENTS

Fluid Command Module (FCM)

P/N **100901**

Each Fluid Command Module (FCM) operates up to four Pulser/Solenoid Modules (PSM's) which are typically connected to hose reels for fluid control and monitoring. The FCM's communicate with the Oil Cop Controller (CTR) via self-healing, mesh network wirelessly or, if desired, via two wire current loop. Any portion of the Oil Cop system can be hard wired or used wirelessly in order to achieve maximum reliability and coverage.

Each Fluid Command Module (FCM) includes a 115 VAC power module that is used to power the FCM as well as providing 24 volts to up to four Pulser/Solenoid Modules (PSM's). The PSM's are quickly and easily connected to the Fluid Command Module (FCM) via a four conductor cable. This four conductor cable provides pulser/metering data to the Fluid Command Module (FCM) as well as power to the solenoids, thus simplifying connectivity immensely.

Oil Cop Fluid Command Modules (FCM's) incorporate communication protocols that allow an unlimited number of FCM's to be connected to the Oil Cop Controller (CTR), providing virtually endless expansion capability as well as full flexibility in system configuration and layout.

Fluid Command Modules (FCM'S) have on board capability to perform dispensing computations, maintain dispense totals, maintain calibration data, buffer transaction data and participate as a node in the unique, self-healing, Oil Cop mesh network.

Technician Access Console (TAC)

P/N **100903**

In applications where technicians do not have access to a LAN connected computer or lap top, the Technician Access Console (TAC) provides a convenient and reliable way to access the Oil Cop System. This Console allows technicians to enter their pin codes, work orders, odometer readings, preset dispense amounts, select which fluid to dispense and many other vital functions. Feedback from the Console is provided via a high contrast digital LCD display.

The Technician Access Console can operate wirelessly or, if desired can be hardwired via a two conductor wire connection.
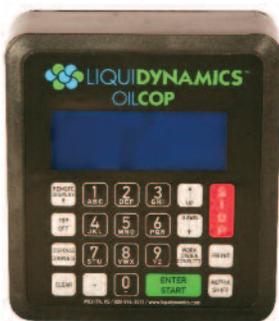
Wi-Fi Router

P/N **100855**

This router acts as a bridge between the Oil Cop Controller (CTR) and any smart devices such as smart phones and iPads to allow these devices to communicate with the Oil Cop System. These smart devices can then access any of the FCM's to initiate dispense operations and/or act as a Technician Access Console.

Communications Data Module (CDM)

P/N **100904**

This unit provides a communications interface between the Fluid Command Modules (FCM's) and the Oil Cop Controller (CTR). The Communications data Module (CDM) can be operated wirelessly or may be hardwired via a two conductor cable if desired. The Communications Data Module also serves as a range extender to allow the FCM's to communicate over large distances or in cases where there are electrically noisy environments or metal obstructions. The Communications Data Module is connected to the Oil Cop Controller to download information transmitted from components (i.e. FCMs, tank monitors, etc).

Controller (CTR)

P/N **100854**

The Oil Cop Controller (CTR) is able to communicate with an unlimited number of Fluid Command Modules (FCM's) via a self-healing mesh wireless network or, if desired can be hard wired via a two wire cable. This arrangement assures reliable communication since any, or all portions of the system may operate either hard wired or via wireless. Extended distances can be easily accommodated with the addition of Communication data Modules (CDM's).

The primary purpose of the Oil Cop Controller (CTR) is to act as a communication hub and control center for the Oil Cop system. It records and stores transaction information such as User ID, date and time of dispense, fluid type, dispense amount, work order, oil inventory, etc. all in a dynamic relational database that allows for flexible report generation. A unique feature of the Oil Cop system is that any smart device with internet connectivity such as iPads, iPhones, laptops or internet connected computers can access the Oil Cop System. When the Oil Cop Controller (CTR) is connected to an office network, the Oil Cop System can be accessed by any computer on the network, the system also allows integration with 3rd party management software systems. In addition, if the Oil Cop Controller is connected to the internet, it can email various reports and alarm conditions as well as receive software updates.

The Controller (CTR) contains all operational firmware, eliminating the need to install application software on office computers accessing the Oil Cop System. A powerful start-up wizard is embedded in the Controller (CTR) which prompts the system administrator through the set up procedure and configuring automated system maintenance such as purging old data and system backup.