

February 5, 2018

## **GENERAL LETTER GL18 122**

### **Scanner 2000 series firmware and software advances**

It is with pride that the Cameron announces enhancements to the popular Scanner 2000 series models.

To match the Scanner Data Manager software program have also been upgraded.

#### **ModWorX Software Based Enhancements**

##### **Version 4.2.0 rev 18**

#### **Communication settings**

- Improved support for the Scanner 2100 and Scanner 2100W. Wireless network setup now available in communication configuration
- Improved compatibility with communication systems with slow radio wake up times. Increased maximum Communication Timeout Period from 10,000 to 120,000 mS within Options and Login screens

#### **PID Controller**

- Improved reporting of the current operation mode of the controller (Disabled/Auto/Pressure Override/Manual)

#### **Analog Output**

- User calibration of analog output can now adjust zero and span by up to  $\pm 500 \mu\text{A}$

#### **Field Calibrations**

- Expanded calibration system with full compatibility with existing in-place calibrations.
  - Calibrations now capture and report the As-Found values results from the installed calibration as well as the As-Left results from the new calibration.
  - Reformatted Calibration, Verification, and Configuration reports improves appearance and the length of a printed report. Reports are now more consistent with those produced by Scanner Data Manager.
  - Verification reports have been upgraded to include the current and previous verification data.
  - Calibration notes are now included in the Calibration reports.
- Note also requires firmware version 4.18 (circa June 2013) or higher

#### **Downloading and File Management**

- Added options for controlling the automatic directory storage path and file name construction. Users can now choose which system information fields are used for creating storage directories and for file name construction for custom organization of downloads.

**Firmware Based Enhancements**  
**Version 4.3.5**

**Keypad Functions**

- PID Controller adjustments. The controller mode can be changed between Auto and Manual modes. Once the mode is selected, an optional modification of the Auto Set Point or Manual Override value is prompted.
- Turbine K-Factor entry of a single (linear) factor
- Plate change menu enabled for all differential producer flow calculations.

Note: There is no keypad on a Scanner 2200

**PID Controller**

- Pressure override controller now supports full PID actions for actively maintaining the pressure limit with Kp, Ki, and Kd parameters.
- Controller now supports a dead band factor on the pressure override feature. This grants the user more control over the how the pressure override switches on and off.

**Modbus Features**

- Added Holding registers which capture all Grand Total values on the Daily, Interval, and Polling periods. Includes FR1 Grand Total Volume/Energy/Mass and T1/T2 Grand Total Volume
- Added Archive Preview maps. These allow for standard Modbus reads of the current and previous archive periods for the Daily and Interface archives.

**Upgrading Software and Firmware**

Software upgrades are available free of charge by downloading the new software from Cameron's Scanner 2000 website page.

Firmware upgrades require a special device to load new firmware in a Scanner 2000, 2100 or 2200 series model. Contact Cameron service at [ms-services@cameron.slb.com](mailto:ms-services@cameron.slb.com) or at 1 844 226 6327 to discuss arrangements and possible service costs to upgrade your Scanner.

Yours truly,  
CAMERON

Don Hammill  
Product Manager  
(403) 291-5888