



Technical Service Bulletin

To: Allied Service & Help Desk Personnel

From: Allied Electronics, Inc.

Date: May 22, 2023

Re: Enabling TCP/IP Communications to the Tank Gauge

Introduction:

The purpose of this document is to explain the process of enabling TCP/IP communications between the tank gauge and the Allied forecourt controller via the ANDI_DGS utility.

There is a presumption that the individual(s) performing the following procedure have acquired a basic understanding of the Allied forecourt controller and the ANDI_DGS utility.

This includes being able to set up and log on as an "administrator" (Refer to the TSB, "ANDI_DGS Username and Password Management.pdf" for more information). This also includes being able to modify port assignments. (Refer to the TSB, "ANDI_DGS Port and IO Board Assignment Function.pdf" for more information).

Required:

- ✓ ANDI_DGS utility
- ✓ Knowledge of the tank gauge's IP configuration and scheme
- ✓ Knowledge of the tank gauge's TCP port

Contact Allied Electronics technical support for the required files and ANDI_DGS utility.

Procedure:

1. Launch DGS and connect to the forecourt controller via Ethernet. Note: This procedure will **NOT** work if connected to the forecourt controller using a serial connection.
2. Verify that the user is logged on as an "administrator."
3. Click on the Utilities tab and then CF Access. A Compact Flash Configuration form will appear.

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- Under "Port and Board Assignment," select COM2 and set it to "Not in Use" followed by clicking "Change Port" and "Apply Changes."

Port and Board Assignment

Port Function I/O Board

Configuring Port 2
COM2

Port Functions
Not in Use

Change Port Restore Defaults View All

Apply Changes ?

- While still on the Compact Flash Configuration form, look for the section "Extended Configuration Items."
- Click the Section> button until you navigate to the [TCP_LOGGING] Section. Click the Item> button until you get to FIM. Use the dropdown menu to select "True."

Extended Configuration Items

[TCP_LOGGING]

FIM

True

Apply

Item > Section >

Specify the level of TCP/IP interface message logging

- Click the "Apply" button.
- Click the Section> button until you navigate to [TANK_GAUGE]. Enter the IP address of the tank gauge and click the "Apply" button:

Extended Configuration Items

[TANK_GAUGE]

IpAddress

10.0.3.123

Apply

Item > Section >

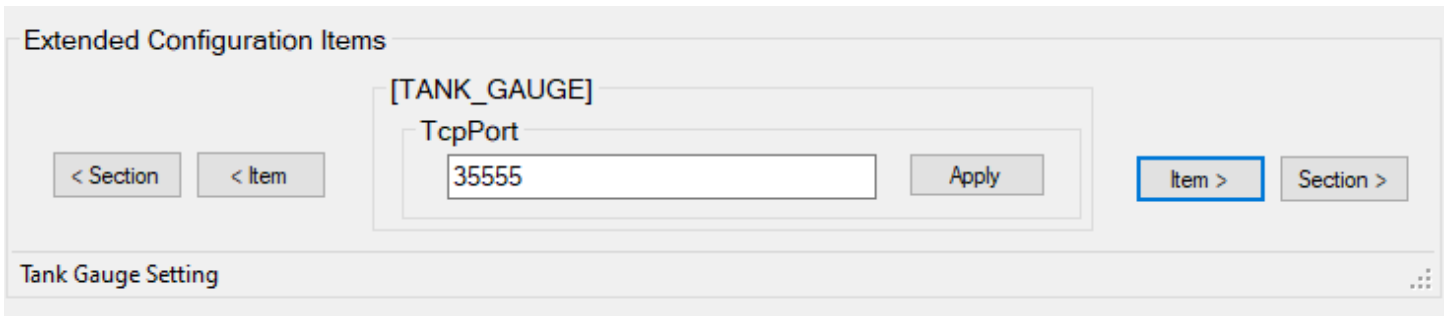
Tank Gauge Setting

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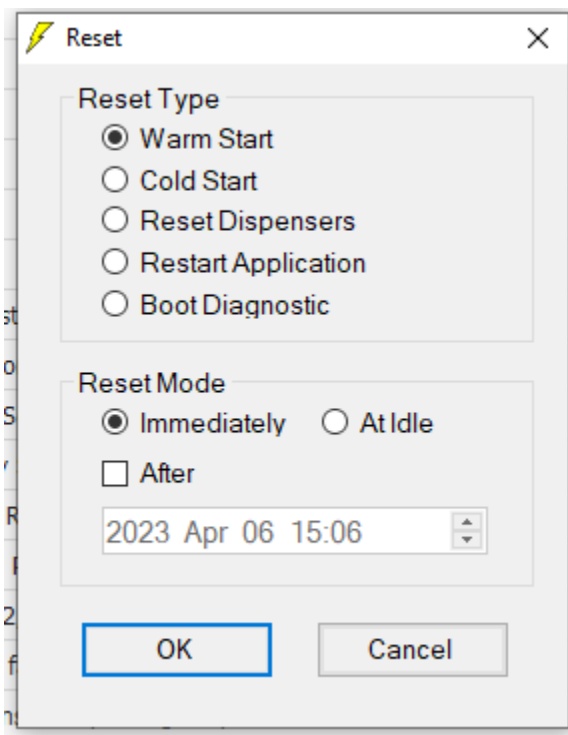
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- Click the Item> button until you get to TcpPort. Enter the TCP Port as configured on the tank gauge and click the "Apply" button.



- Back at the Utilities tab, click the "Reset" button and select Warm Start->Immediately->OK:



- The forecourt controller will warm start. Upon reboot and connection with the point-of-sale, connect with DGS and navigate to the Status tab. You should observe that port 2 is set to NON:

Port	Function	State	Status
1	POS	Disconnected	CTS & DSR Not Active
2	NON	Not Used	Port Not In Use
3	CRW	Disconnected	Timeout (No ACK/NAK) Error

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You should also observe that one of the virtual ports (17 thru 32) is now assigned as TLS with an Active state:

23	POS	Disconnected	External Device Log Off
24	POS	Disconnected	External Device Log Off
25	TLS	Active	Link OK
26	NON	Not Used	Port Not In Use

Note: The status will only transition to "Link OK" when there is data to send or receive. Otherwise, it is normal for the status to be "External Device Log Off."

Contact Allied Electronics Technical Support with any questions or concerns:

800-223-3619

SupportRequest@AlliedElectronics.com

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