Network Card and Ethernet Communications - ACOP (Atlas Copco Open Protocol)

Ethernet-capable Global 8 units have two additional items not appearing on the standard Global 8 units. These are a network card with multiple connectors and a Human-Machine Interface (HMI).

The four connectors are on the left side of the unit and are shown in an image on Page 8 of this manual. The HMI is used to track communications with and program communications settings for the Global 8 that will be connected to your Ethernet system. Note that the Ethernet system to which the Global 8 will be connected must be using the Atlas-Copco Open Protocol (ACOP) for the Global 8 - Ethernet part number 10474 to work with the system.

Network Card Connectors - USB

The USB connector is designed to permit the use of a computer to store additional protocols and to perform additional functions provided in the AQ software. This software is available through a third-party supplier, with a link on our website. It can be used with the Global 8 by connecting the computer through the USB port.

Network Card Connectors - Network Connector RJ45

This is the connector to be used when connecting the Global 8 - Ethernet to your internal Ethernet system.

Network Card Connectors - Male DSUB9 Connector

This is the connector to be used when a bar code reader is to be connected to the Global 8 - Ethernet. See the section on Creating Bar Codes for details on using a bar code reader with the unit.

Network Card Connectors -Female DSUB9 Connector

This connector provides the serial output required for a serial printer. Connecting the printer to this port will result in a print event each time a torque event occurs. Note: This port can be used to communicate the results to HyperTerminal or other terminal program.

Ethernet Functionality

The Global 8 - Ethernet ACOP supports Ethernet communications using the Atlas-Copco Open Protocol. The ACOP interface acts as a server. This server waits for a client to make a connection with it and can only accept one connection at a time. The TCP/IP messages that are sent and received by this unit adhere to the PowerFocus Open Protocol version 3.0.

This control will **send** the following commands/responses:

MID	Description
0002	Communication Start Ack
0004	Command Error
0005	Command Accepted
0011	Parameter Set Number Upload Reply
0013	Parameter Set Data Upload Reply
0015	Parameter Set Selected
0041	Tool Data Upload Reply
0052	Vehicle ID Number Upload
0061	Last Tightening Result Data upload
0065	Old Tightening Result Reply
0081	Time Upload Reply

The system will **accept** the following commands/responses:

MID	Description
0001	Communication Start
0003	Communication Stop
0010	Parameter Set Numbers Upload Request
0012	Parameter Set Data Upload Request
0014	Parameter Set Selected Subscribe
0016	Parameter Set Selected Ack
0017	Parameter Set Selected Unsubscribe
0018	Select Parameter Set
0019	Set Parameter Set Batch Size
0020	Reset Parameter Set Batch Size
0040	Tool Data Upload Request
0042	Disable Tool
0043	Enable Tool
0044	Disconnect Tool
0050	Vehicle ID Number Download Request
0051	Vehicle ID Number Upload Subscribe
0053	Vehicle ID Number Upload Ack
0054	Vehicle ID Number Upload Unsubscribe
0060	Last Tightening Result Data Subscribe
0062	Last Tightening Result Data Ack
0063	Last Tightening Result Data Unsubscribe
0064	Old Tightening Result Upload Request
0080	Read Time Upload Request
0082	Set Time In The Torque Controller
9999	Keep Alive

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