

AGA Report Applications Software

The AGA Report Applications Software adds AGA report generation capability to ROCLINK™ 800 Configuration Software for the ROC300-Series Remote Operations Controllers and FloBoss™ 407 Flow Managers. The AGA Report software creates fixed-format reports of the operational characteristics of one or more measured meter runs. It also makes the reports available for display and saves them as disk files that can be viewed or printed at a later date.

The report software is used in conjunction with the AGA Flow Applications Software contained in the ROC or FloBoss units (see Specification Sheet 2.1:FW2).

The AGA Report software consists of a utility that is part of the standard ROCLINK 800 Configuration Software.

Specifications¹

GENERAL PARAMETERS

Report period, selected AGA number, meter run ID, tag ID, station name, customer name, operator, contract hour, report date, report file, time downloaded, firmware revision.

SYSTEM PARAMETERS

ROC address, ROC group, active AGAs, maximum AGAs, contract hour, MPU loading.

FLOW PARAMETERS

Latitude, elevation, calculation method, AGA configuration, specific gravity, heating value, gravitational acceleration, scan period, alarm code, low alarm, high alarm, viscosity, specific heat ratio, base pressure, base temperature, low flow cutoff, gravitational correction factor, heating value.

AGA3 only: Pipe diameter, orifice diameter, measured temperature, orifice material.

1992 AGA3 only: Atmospheric pressure, AGA8 characterization method II, pipe reference temperature, pipe material.

GAS COMPOSITION

Nitrogen, carbon dioxide, hydrogen sulfide, water, helium, methane, ethane, propane, n-butane, i-butane, n-pentane, i-pentane, n-hexane, n-heptane, n-octane, n-nonane, n-decane, oxygen, carbon monoxide, hydrogen.

INPUT POINT ASSIGNMENT PARAMETERS

Stacked differential pressure enable, low differential pressure input, meter input, static pressure input, temperature input, low differential pressure setpoint, high differential pressure setpoint, entered meter value, entered pressure value, entered temperature value.

CALCULATED FACTORS

AGA3: Instantaneous flow, instantaneous energy, flow today, energy today, flow yesterday, energy yesterday, pressure extension, orifice flow constant, Y , F_r (or F_n for 1992), F_{ff} , F_{pv} , F_{gr} , F_b (or C_d for 1992), F_{pb} , F_{tb} , F_a .

AGA7: Instantaneous flow, instantaneous energy, flow today, uncorrected flow, energy today, flow yesterday, energy yesterday, F_{pm} , F_{pb} , F_{tm} , F_{tb} , S .

STATIC PRESSURE INPUT POINT DEFINITION

Parameters appropriate to the assigned static pressure input: analog input, MVS input, HART input, or manual input. Only the analog input parameters are listed here: point number, point tag ID, units, scan period, filter, adjusted A/D 0%, adjusted A/D 100%, low reading EU, high reading EU, low alarm EU, high alarm EU, low low alarm EU, high high alarm EU, rate alarm EU, alarm deadband, filtered EUs, mode, alarm code, raw A/D input, actual scan time.

1. The information in this table is provided by the AGA Report Software for each meter run.

Specifications (Cont'd)

METER INPUT POINT DEFINITION

AGA3 Analog Input Parameters: Point number, point tag ID, units, scan period, filter, adjusted A/D 0%, adjusted A/D 100%, low reading EU, high reading EU, low alarm EU, high alarm EU, low low alarm EU, high high alarm EU, rate alarm EU, alarm deadband, filtered EUs, mode, alarm code, raw A/D input, actual scan time.

AGA7 Pulse Input Parameters: Point number, point tag ID, units, rate flag, rate period, scan period, conversion, low alarm EU, high alarm EU, low low alarm EU, high high alarm EU, rate alarm EU, alarm deadband, value in EUs, mode, alarm code, accumulated value, current rate, today's total, yesterday's total.

TEMPERATURE INPUT POINT DEFINITION

Point number, point tag ID, units, scan period, filter, adjusted A/D 0%, adjusted A/D 100%, low reading EU, high reading EU, low alarm EU, high alarm EU, low low alarm EU, high high alarm EU, rate alarm EU, alarm deadband, filtered EUs, mode, alarm code, raw A/D input, actual scan time.

HOURLY/DAILY VOLUME REPORT

AGA3 (Orifice): Date, time, flow minutes, volume, energy, flow averages (h_w , P_f , T_f , orifice flow constant, pressure extension).

AGA7 (Turbine): Date, time, flow minutes, uncorrected flow volume, volume, energy, flow averages (P_f , T_f).

ALARM REPORT

Date, time, tag, set/clear, value, description.

EVENT REPORT

Date, time, type, ID, old value, new value, description.

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