

# Amp Hour Stroke Pump Paint Feeder

## PRODUCT DATA SHEET

The Amp Hour Paint Feeder is a versatile controller offering a complete feature set. Offering the most accurate method to feed replenishment paint, the Amp Hour Paint Feeder can count strokes or control time-based pumps (such as a diaphragm pump). The unit is rugged and built to last. An optional serial communications board allows the operator to send the process data to a PC or PLC.

### Features

- Accepts input through a 50, 60, or 100 mV shunt from a 5 - 3,000 amp DC rectifier.
- Can control up to two independent stroke based feed pumps.
- No batteries to replace, permanent memory.
- 2 x lines green backlight LED display.
- NEMA 4 Plastic Enclosure.
- Easy-to-use 2 key user interface
- 12 digit resettable cumulative amp/hour.
- 12 digit non-resettable cumulative amp/hour.

### Ordering Information

- PN 210030 as described above.
- PN 210031, same as PN 210030, except with second rectifier option selected.
- PN 210032, if non-stroke type pumps are used and just 1 rectifier.
- Call UFS for Part Numbers on all other configurations.

### Properties

- Maximum amp draw per relay contacts to control each pump is 5 amps and includes a fuse.
- 120 VAC 1 phase power is required.
- No jumpers to set, all programming is menu-driven with the two front keys.
- Pump Setting Worksheet on reverse side of this sheet logs your current settings.

### Options

- 230 V AC operation.
- Add a second rectifier (not available on PN 210032).
- Countlink, ability to link more than 1 feeder together.
- RS 485 Network kit or RS232/485 Network kit.

**UFS Corporation is the authorized sales and service distributor of JP Tech E-coat paint market products.**



Typical view of PN 210030 & 210031



Typical view of PN 210032

**UFS Corporation . 330 North 400 East . Valparaiso, Indiana 46383 USA  
+219-464-2027 . +219-464-8646 (Fax) . www.ufsc.com . info@ufsc.com**

## B. PUMP SETTING WORKSHEET

You will need the following information to use the Pump Settings Worksheet:

Nominal Feed Ratio: (A) \_\_\_\_\_ Gal. Per (B) \_\_\_\_\_ Amp/Hours  
(As recommended by your chemical representative)

Shunt Size: (E) \_\_\_\_\_ Amps

Actual Pump Vol: (G) \_\_\_\_\_ ml. Per minute (Measured by You)

### Step 1. Nominal Feed Ratio:

(A) \_\_\_\_\_ GAL. Per (B) \_\_\_\_\_ Amp/Hours

OR (C) \_\_\_\_\_ ml. Per (B) \_\_\_\_\_ Amp/Hours  
[3784ml = 1 gallon]

### Step 2. Feed Ratio per Amp/Hour:

\_\_\_\_\_ ml/ \_\_\_\_\_ Amp/Hour = (D) \_\_\_\_\_ ml/1 Amp/Hour  
(C) (B) (C)/(B)

### Step 3. Desired Feed Rate:

\_\_\_\_\_ ml per 1 Amp/Hour X (E) \_\_\_\_\_ Amps = (F) \_\_\_\_\_ ml/Hour  
(D) (Shunt Size) (D) X (E)

### Step 4. Measure Actual Pump Rate Per Minute:

(G) \_\_\_\_\_ ml per Minute X 60 Minutes = (H) \_\_\_\_\_ ml per Hour  
(Pump Volume) (G) X 60

### Step 5. Feed Rate Multiplier (Desired Feed Rate / Actual Feed Rate):

\_\_\_\_\_ ml per Maximum Amp/Hour / \_\_\_\_\_ ml per Hour = (I)  
(F) (H) (F/H)

### Step 6. Pump ON Time per Hour:

\_\_\_\_\_ X 3600 Seconds = (J) \_\_\_\_\_ Seconds  
(I) (I) X 3600

### Step 7. Final Settings:

Every \_\_\_\_\_ Amp/Hour, the pump must turn ON for \_\_\_\_\_ Seconds  
(E) (J)

Ratio: \_\_\_\_\_ : \_\_\_\_\_  
Round \_\_\_\_\_ : \_\_\_\_\_  
Diff: \_\_\_\_\_ : \_\_\_\_\_  
%Error \_\_\_\_\_ : \_\_\_\_\_

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