

Whole Kernel Corn – Field Trials

Typical Moisture Range : 14-18%

The Process

The corn is separated into 3 bins with different moistures. Based on the moisture of the bins, they re-blend the corn trying to make an average of moisture from those three bins to fit the range they want in the mill. The probe will tell them what bin to pull more or less from so they can hit the ideal moisture.

Mounting

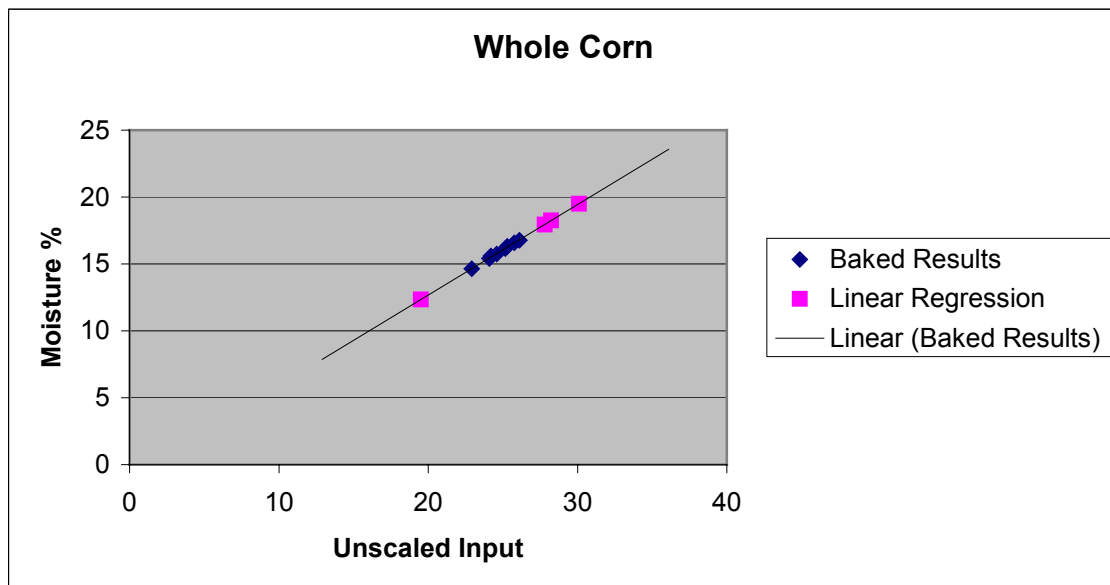
The HP02 sensor has been mounted in the discharge chute of the elevator. The 4-20mA signal is used direct to the PLC

Calibration Data

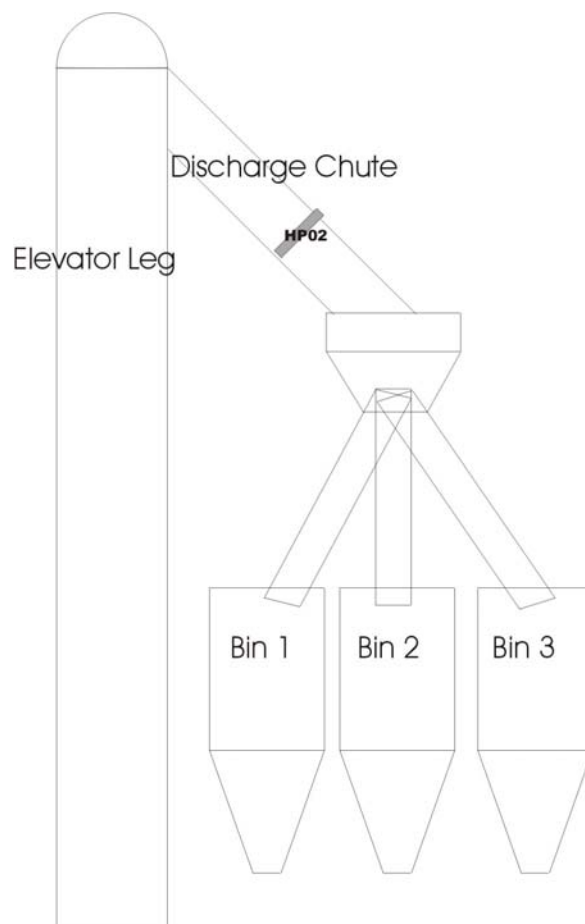
The calibration data (yellow) used is listed below with some additional points arrived at by performing a linear regression (blue) to extend the range from the lowest to highest possible moistures. All moisture results were obtained by oven drying.

Unscaled Input	Moisture %
22.91	14.63
24.09	15.4
24.2	15.6
24.59	15.74
25.16	16.16
25.3	16.31
25.76	16.59
26.1	16.76

Linear Regression Values Unscaled Input	Moisture %
19.5	12.34
27.8	17.95
28.24	18.25
30.09	19.5



Installation Photos and Diagrams



~end~