SAMUEL MORLAND, THE POOR MAN'S DYALL 1689



"THE Poor Man's **D Y A L**. WITH AN INSTRUMENT To Set It." is a small book of just six pages. It explains how to set a dial correctly in various latitudes. It commences:

To Set The Dyal.

FIrst, Set the small Instrument upon any Level place, where the Sun comes two or three hours before, and as many after Noon, and by the 4 Marks at the bottom, make the 4 Points (A, B, C, D) and by those Marks make two Lines, (A, C) and (B, D) crossing each other in the Point (O.) Then mark the Point (E) where the shadow of the Pin terminates in the Forenoon. And having from the Distance (OE) described a Circle, watch in the Afternoon, when the shadow of the Pin cuts the Circle in the Point (F) for the Line (EF) is a true East and West Line ; And the Hours of (VI) and (VI) upon the Dyal being placed upon the said Line, the Dyal is truly set.

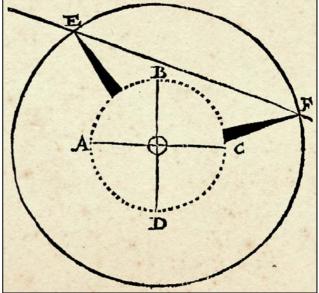


Diagram for Setting the Dial.

DIRECTIONS.

For *London*, or any place within 20 Miles, the Dyal must be placed exactly Level; But for the following place, the North-side of the Dyal (where is the Hour of (XII) must be elevated higher than the Opposit, or South-side, as hereafter exprest, which every Carpenter and Joiner knows how to perform.

There now follow lists of places showing how much to tilt the dial by, in parts of an inch:

IN ENGLAND.

WALES.

SCOTLAND.

IRELAND.

For the Places hereafter mentioned, the North-side of the Dyal must be lower than the South-side, *viz*.

IN ENGLAND.

B*Ristol*, 1 hundreth. *Canterbury*, 1 tenth. *Chichester*, 1 sixteenth. *Dorchester*, 1 twentieth. *Exeter*, 1 sixteenth. *Gilford*, 1 fiftieth. *Reading*, 1 hundreth. *Salisbury*, 3 hundreths. *Truro*, 7 hundreths. The ISLANDS.

G^{Uernsey, 1} eighth.

Jersey, 1 eighth.

Lindy, 1 hundreth.

Portland, 7 hundreths.

Wight, 1 twentieth.

FINIS.

Number of Pages: 6	
Illustrations: 1	